User Guide

Personal Computer
VGC-V series

SONY

Contents

Before Use 5
Documentation 5
Ergonomic Considerations 7
Getting Started 9
Locating Controls and Ports 10
About the Indicator Lights 14
Connecting the Power Cord 15
Shutting Down Your Computer Safely 17
Using Your VAIO Computer 18
Using the Keyboard 19
Using the Pointing Device (on Selected Models Only) 31
Using the Mouse 33
Using Special-function Buttons 38
Using the Optical Disc Drive 39
Using the TV Function 47
Using PC Cards 56
Using the Memory Stick Media 60
Using the Internet 67
Using Wireless LAN (WLAN) 68

Using Peripheral Devices 75
Connecting External Speakers 76
Using the Remote Commander 77
Connecting an External Microphone 80
Connecting a Universal Serial Bus (USB) Device 81
Connecting a Printer 84
Connecting an i.LINK Device 85
Connecting to a Network (LAN) 87
Customizing Your VAIO Computer 89
Setting the Password 90
Setting Up Your Computer with VAIO Control Center 92
Using the Power Saving Modes 93
Upgrading Your VAIO Computer 97
Adding and Removing Memory 98
Precautions 109
On Handling the LCD Screen 110
On Using the Power Source 111
On Handling Your Computer 112
On Handling Floppy Disks 113
On Handling Discs 114
On Using Headphones 114
On Handling Memory Stick Media 115
On Handling the Hard Disk 116

Troubleshooting 117
Computer 118
System Security 124
Internet 126
Networking 128
CDs and DVDs 130
Display 133
Printing 134
Microphone 135
Mouse 136
Speakers 137
Pointing Device 138
Keyboard 140
Floppy Disks 141
PC Cards 142
Audio/Video 143
Memory Stick Media 144
Peripherals 145
Support Options 146
Sony Support Information 146
Program Support Information 149

Before Use

Congratulations on your purchase of this Sony VAIO® computer, and welcome to the on-screen User Guide. Sony has combined leading-edge technology in audio, video, computing, and communications to provide state-of-the-art personal computing.

Documentation

Your Documentation contains printed information and user guides to read on your computer.

Printed Documentation

- **Welcome mat** — Contains overview of connections, setting up information, etc.
- **Safety information** — Contains safety guidelines and owner information.

Non-printed Documentation

- **User Guide (this manual)** — Contains features of your computer. It also includes information about the software programs included with your computer, as well as information on solving common problems.
- **Specifications** — The online **Specifications** sheet describes the hardware and software configuration of your VAIO computer.

  To view the online **Specifications** sheet:

  1. Connect to the Internet.
  2. Go to the Sony online support Web site at http://www.sony.com/pcsupport for customers in USA and Canada, or at http://kdb.sony-latin.com/ for customers in Latin American countries or areas.

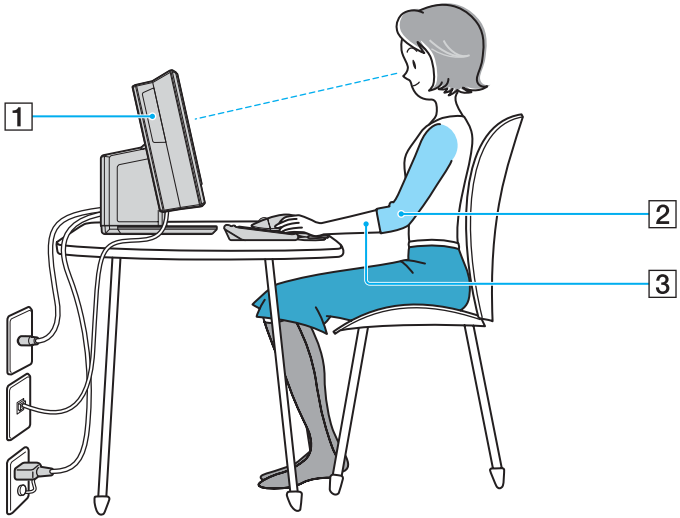
- **VAIO Recovery Options Guide** — Provides information about restoring individual software programs, software drivers, and drive partition(s) or your entire hard disk drive to the original factory installed settings.

  To access this online software information:

  1. Click **Start**, point to **All Programs**, and click **VAIO Control Center**.
  2. Click the **Categories** tab and then the **Documentation** folder.
  3. Click **Recovery Guide**.

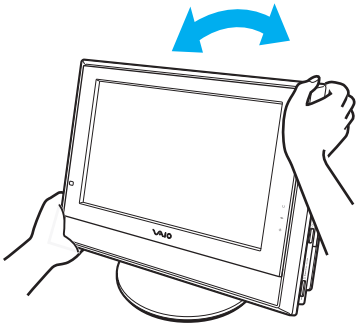
Ergonomic Considerations

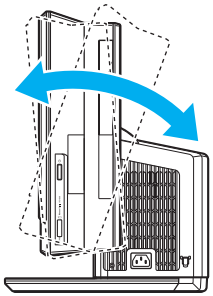
Whenever possible, you should attempt to take account of the following ergonomic considerations:



- **Position of your computer** – Place the display directly in front of you (1). Keep your forearms horizontal (2), with your wrists in a neutral, comfortable position (3) while using the keyboard, pointing device, or external mouse. Let your upper arms hang naturally at your sides. Have breaks during sessions with your computer. Excessive use of the computer may strain muscles or tendons.
- **Furniture and posture** – Sit in a chair with good back support. Adjust the level of the chair so your feet are flat on the floor. A footrest may make you more comfortable. Sit in a relaxed, upright posture and avoid slouching forward or leaning far backwards.

- **Viewing angle of the display** – Use the display's tilting feature to find the best position. You can reduce eye strain and muscle fatigue by adjusting the tilt of the display to the proper position. Adjust the brightness setting of the display as well.





- **Lighting** – Choose a location where windows and lights do not create glare and reflection on the display. Use indirect lighting to avoid bright spots on the display. You can also purchase accessories for your display that help reduce glare. Proper lighting adds to your comfort and work effectiveness.
- **Ventilation** – Make sure you leave at least 10 inches (25 cm) of space behind and on each side of the main unit.

! When you lift the computer, grasp the computer on both sides, holding the bottom edges firmly.

Getting Started

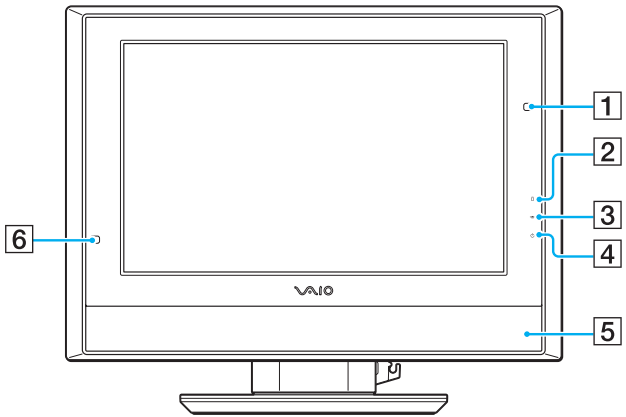
This section describes how to get started with using your VAIO computer.

❑ **Locating Controls and Ports** (page 10)
❑ **About the Indicator Lights** (page 14)
❑ **Connecting the Power Cord** (page 15)
❑ **Shutting Down Your Computer Safely** (page 17)

Locating Controls and Ports

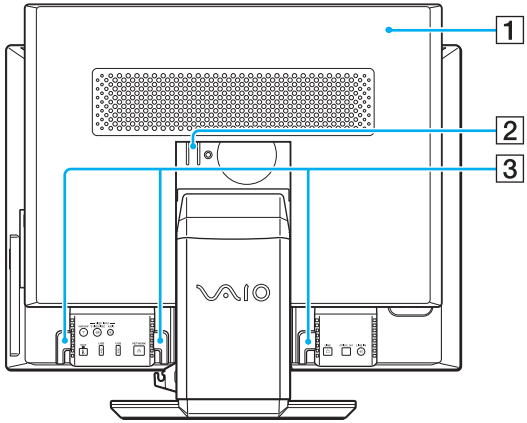
Take a moment to identify the controls and ports shown on the following pages.

Front



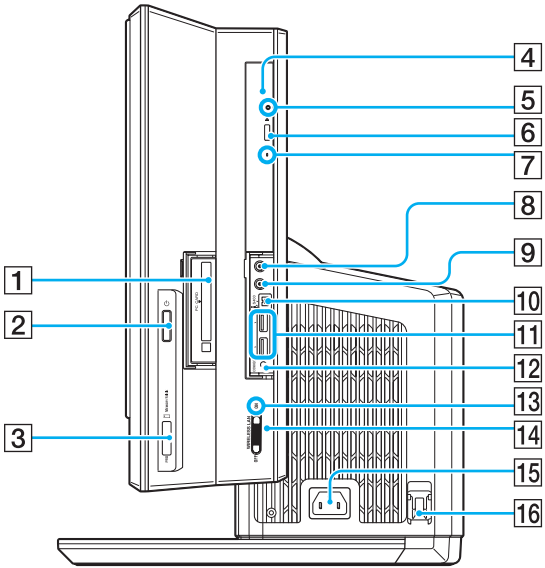
1. Infrared receiver (VGC-V620G only) (page 77)
2. Hard disk drive indicator (page 14)
3. Memory Stick media indicator (page 14)
4. Power indicator (page 14)
5. Stereo speakers
6. Infrared receiver (VGC-V617G/V600MG only) (page 77)

Back



1 Back panel cover (removable) (page 100)
2 Back panel cover release tab (page 101)
3 Cable guides

Right



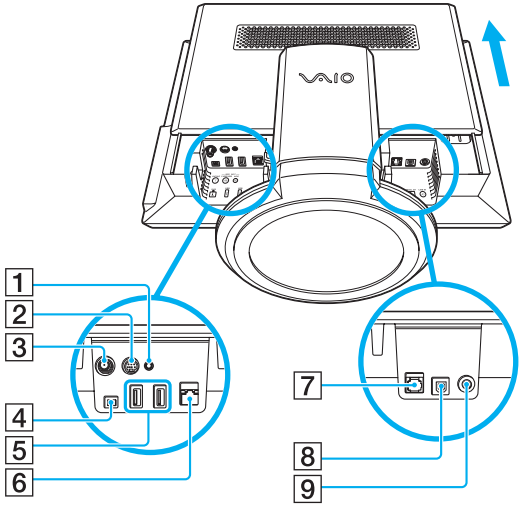
1 PC Card slot (page 56)
2 Power button
3 Memory Stick media slot*1 (page 60)
4 Optical disc drive (page 39)
5 Manual eject hole (page 130)
6 Drive eject button (page 39)
7 Optical disc drive indicator (page 14)
8 Headphones jack (page 76)
9 Microphone jack (page 80)
10 i.LINK® (IEEE1394) S400 port (page 85)
11 Hi-Speed USB (USB 2.0) ports*2 (page 81)
12 CONNECT button (page 19), (page 33)
13 WIRELESS LAN indicator (page 14)
14 WIRELESS LAN switch (page 68)
15 AC In port (page 15)
16 Power cord hook (page 15)

*1 Your computer supports Memory Stick Duo media and Memory Stick Pro high speed and high capacity capabilities.

*2 Supports high-/full-/low- speeds.

Bottom

Slide the back panel cover up to access these ports and jacks.



1. Audio In jack (page 47)
2. S Video In jack (page 47)
3. VHF/UHF port (page 47)
4. i.LINK® (IEEE 1394) S400 port (page 85)
5. Hi-Speed USB (USB 2.0) ports* (page 81)
6. Network (Ethernet) port (100BASE-TX / 10BASE-T) (page 87)
7. Modem port (page 67)
8. S/PDIF Optical Out port for connecting digital equipment such as an AV amplifier.
9. Line In jack for connecting audio equipment.

* Supports high-/full-/low- speeds.

About the Indicator Lights

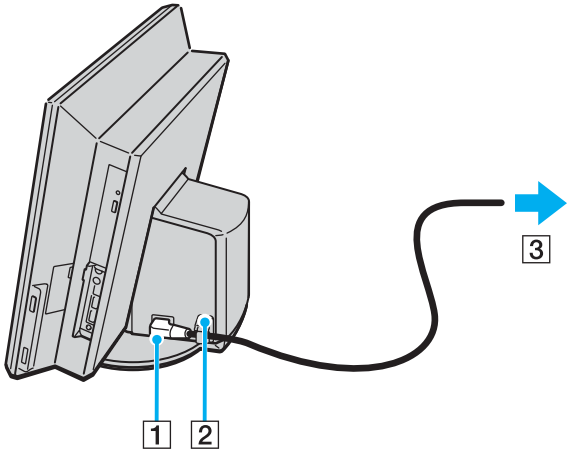
Indicator	*Functions*
Power	Illuminates in green when the power of the computer is on, illuminates in orange when the computer is in **Standby** mode, and turns off when the computer is in **Hibernate** mode or off.
Memory Stick	Illuminates when data is read from or written to the Memory Stick media. (Do not enter **Standby** mode or turn off the computer when this indicator is on.) When the indicator is off, the Memory Stick media is not being used.
Optical disc drive	Illuminates when data is read from or written to the optical disc. When the indicator is off, the optical disc is not being used.
Hard disk	Illuminates when data is read from or written to the hard disk. Do not enter **Standby** mode or turn off the computer when this indicator is on.
WIRELESS LAN	Illuminates when the wireless LAN function is running.

Connecting the Power Cord

The computer's power cord must be plugged into an AC power source, such as an AC wall outlet, surge protector, or Uninterruptible Power Supply (UPS), before you can establish communication with your wireless keyboard and wireless mouse.

To connect the power cord

1. Insert the power cord into the AC In port (1) on the back panel of the computer.
2. Pass the power cord cable over the power cord hook (2), located next to the AC In port.
3. Insert the power cord plug into a grounded AC wall outlet, surge protector, or Universal Power Supply (UPS) (3).



!
Use your computer only with the supplied power cord.

To disconnect your computer completely from AC power, unplug the power cord.

Make sure that the AC outlet is easily accessible.

If you are interrupted and need to leave your computer suddenly, put your computer into **Hibernate** mode. See **Using Hibernate Mode** **(page 96)**. This power saving mode saves you the time of shutting down in the normal way.

Use the power cord hook, located on the right side of the computer, to avoid accidentally unplugging your computer.

Shutting Down Your Computer Safely

To avoid losing unsaved data, be sure to shut down your computer properly, as described below.

To shut down your computer

1. Turn off any peripherals connected to your computer.
2. Click **Start** and then **Turn Off Computer**.
   The **Turn off computer** window appears.
3. Click **Turn Off**.
4. Respond to any prompts warning you to save documents or to consider other users and wait for your computer to turn off automatically.
   The power indicator light turns off.

Using Your VAIO Computer

This section describes how to get the most out of using your VAIO computer.

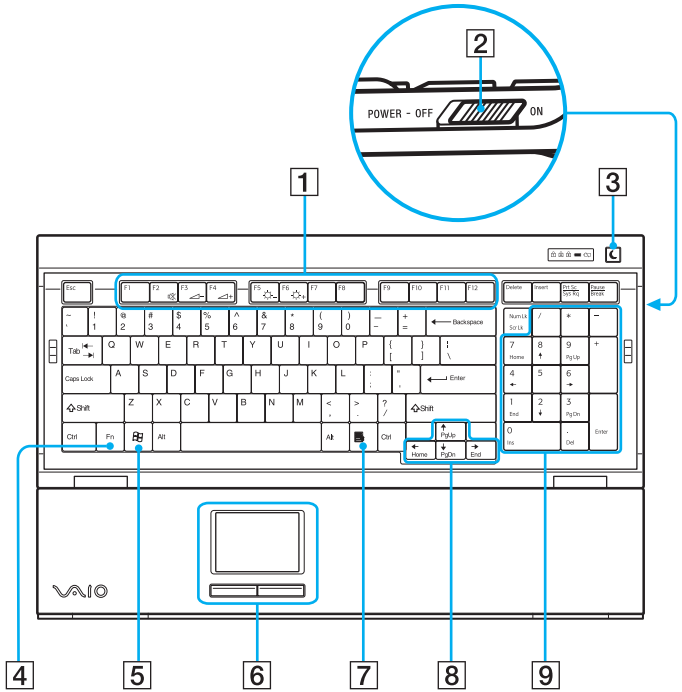
❑ **Using the Keyboard (page 19)**
❑ **Using the Pointing Device (on Selected Models Only) (page 31)**
❑ **Using the Mouse (page 33)**
❑ **Using Special-function Buttons (page 38)**
❑ **Using the Optical Disc Drive (page 39)**
❑ **Using the TV Function (page 47)**
❑ **Using PC Cards (page 56)**
❑ **Using the Memory Stick Media (page 60)**
❑ **Using the Internet (page 67)**
❑ **Using Wireless LAN (WLAN) (page 68)**

Using the Keyboard

Your computer comes with a wireless keyboard. You can place the keyboard anywhere you find comfortable within a range of approximately 32 feet (10 m) for VGC-V620G or 2.5 feet (80 cm) for VGC-V617G/V600MG from the main unit.

For more information on the standard keys, see Windows **Help and Support Center** and click on the **Customizing your computer** link.

VGC-V620G



The above illustration shows the keyboard delivered with the models that are available in USA and Canada. The keyboard for the models available in Latin American countries and areas appears different from the above.

1 Function keys
The 12 function keys along the top of the keyboard are used to perform certain tasks. The task associated with each function key varies among software programs.

2 POWER switch
Slide the POWER switch to turn on and off the wireless keyboard.

3 **Standby** button
See **Using Special-function Buttons (page 38)**.

4 **Fn** key
Use the **Fn** key with the function keys to perform certain tasks. These tasks vary among software programs.

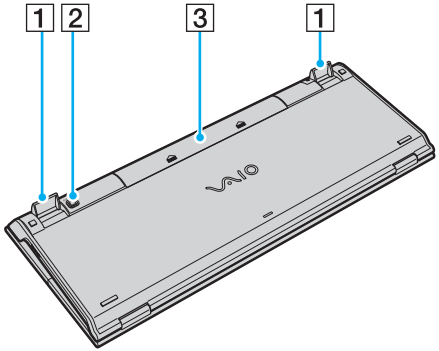
5 **Windows** key
The **Microsoft Windows** key displays the **Start** menu. Pressing this key is equivalent to clicking Start on the taskbar.

6 Pointing device and buttons
Use the input area to move the pointer on the computer screen. The left and right buttons provide the same functions as wireless mouse buttons.

7 **Applications** key
The **Applications** key displays a shortcut menu in certain software programs. Pressing this key is equivalent to clicking the right mouse button.

8 Direction arrows
The ↑, ↓, ←, and → arrow keys move the pointer on the computer screen.

9 Numeric keypad
Use the numeric keypad to type numbers or to perform basic math calculations. Press the **Num Lock** key to enable the numeric keypad function. Press the **Num Lock** key again to disable the numeric keypad.

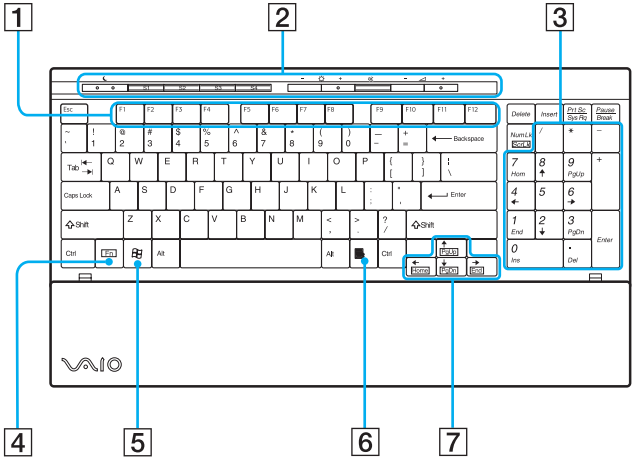


1 Keyboard feet
Extend to adjust the keyboard height.

2 **CONNECT** button
Press to enable the keyboard to communicate with the main unit.

3 Battery compartment
Storage compartment for the AA batteries.

VGC-V617G/V600MG



The above illustration shows the keyboard delivered with the models that are available in USA and Canada. The keyboard for the models available in Latin American countries and areas appears different from the above.

1 Function keys
The 12 function keys along the top of the keyboard are used to perform certain tasks. The task associated with each function key varies among software programs.

2 Special-function buttons
See **Using Special-function Buttons** (page 38).

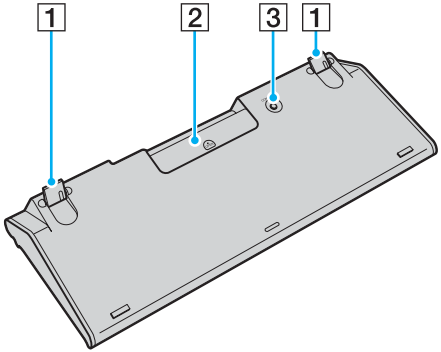
3 Numeric keypad
Use the numeric keypad to type numbers or to perform basic math calculations. Press the **Num Lock** key to enable the numeric keypad function. Press the **Num Lock** key again to disable the numeric keypad.

4 **Fn** key
Use the **Fn** key with the function keys to perform certain tasks. These tasks vary among software programs.

5 **Windows** key
The **Microsoft Windows** key displays the **Start** menu. Pressing this key is equivalent to clicking Start on the taskbar.

6 **Applications** key
The **Applications** key displays a shortcut menu in certain software programs. Pressing this key is equivalent to clicking the right mouse button.

7 Direction arrows
The ↑, ↓, ←, and → arrow keys move the pointer on the computer screen.



1 Keyboard feet
Extend to adjust the keyboard height.

2 Battery compartment
Storage compartment for the AA batteries.

3 **CONNECT** button
Press to enable the keyboard to communicate with the main unit.

Before You Use the Keyboard

Before attempting to use the wireless keyboard, you must enable communications between the computer and the keyboard. Two or four AA batteries, depending on the model you purchased, are supplied with your computer for use in the wireless keyboard.

!
To maintain good communication, operate your wireless keyboard within the distance limitations of keyboard: approximately 32 feet (10 m) for VGC-V620G or 2.5 feet (80 cm) for VGC-V617G/V600MG from the main unit.

Confirm that the supplied AA batteries are properly installed.

Press the **CONNECT** button located on the right panel of the computer first, and then press the **CONNECT** button on the bottom of the keyboard.

Avoid using radio-controlled toys or equipment, CB radios, and other wireless devices in the area near your wireless keyboard. These devices may cause interference, causing your keyboard to stop working properly.

Do not place metal furniture near your computer or wireless keyboard, as this may create interference, causing your keyboard to stop working properly.

Do not mix old (used) and new batteries when replacing batteries in the wireless keyboard. Always use the same type and manufacture of battery.

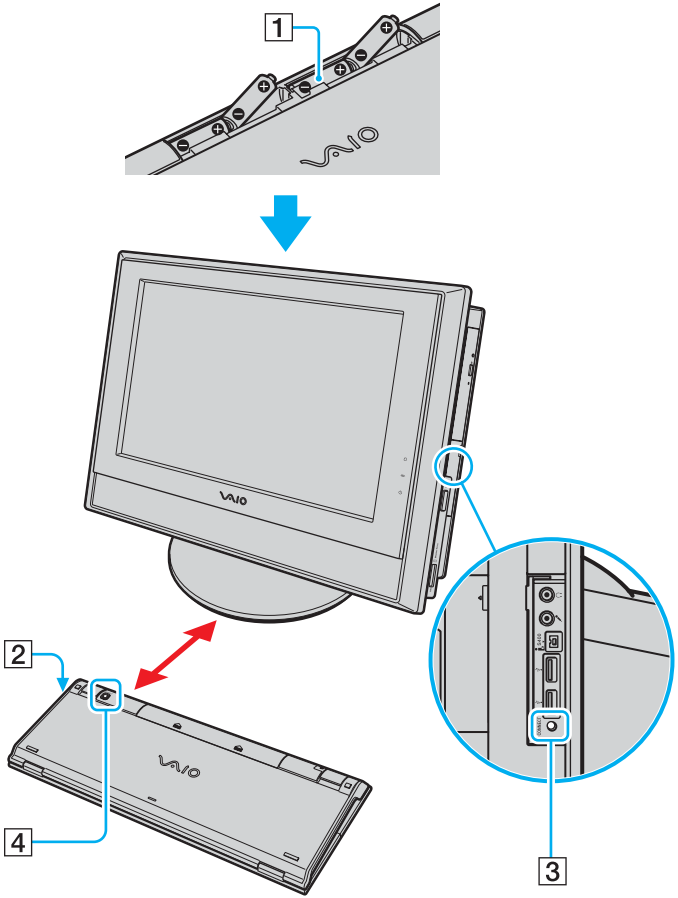
Do not mix alkaline with manganese batteries. Using incompatible batteries or mixing used, new or different types of batteries can damage the keyboard.

To connect the wireless keyboard

VGC-V620G

1. Insert four AA batteries (1) into the wireless keyboard.
2. Turn on the computer.
3. Slide the power switch (2) on the right-hand side of the keyboard to turn on the keyboard.
4. Press the **CONNECT** button (3) on the right panel of the computer.
5. Press the **CONNECT** button (4) on the bottom of the keyboard.
   Communication between the wireless keyboard and the computer is now active.

Steps 4 and 5 must be completed within 10 seconds of each other.


1
2
3
4

VGC-V617G/V600MG

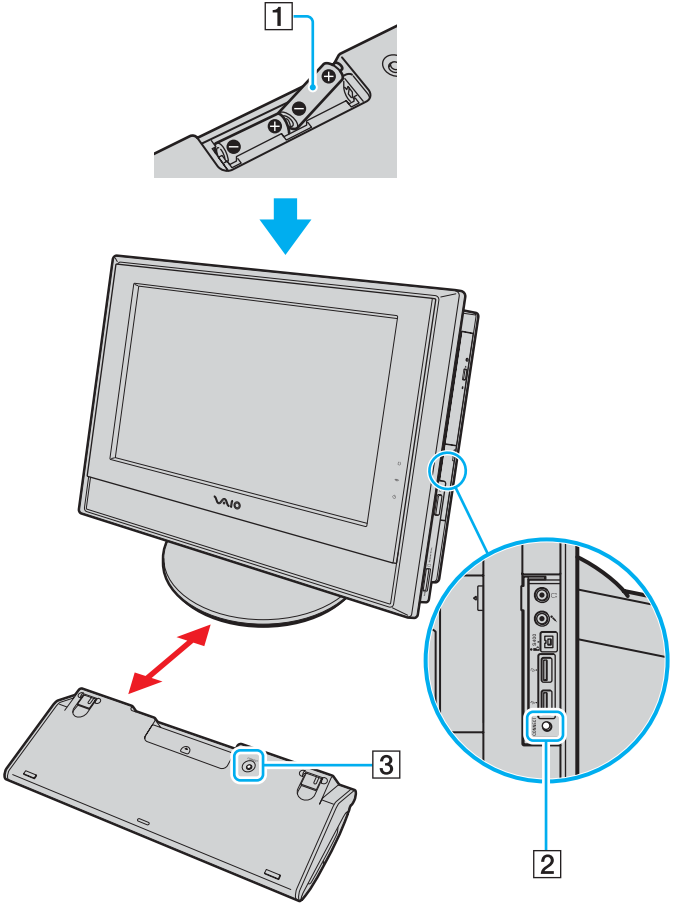
1 Insert two AA batteries (1) into the wireless keyboard.

2 Turn on the computer.

3 Press the **CONNECT** button (2) on the right panel of the computer.

4 Press the **CONNECT** button (3) on the bottom of the keyboard.
Communication between the wireless keyboard and the computer is now active.

✍
Steps 3 and 4 must be completed within 10 seconds of each other.


1
3
2

If your wireless keyboard does not operate properly, the batteries may need to be replaced. If your wireless keyboard is not being used for extended periods of time, remove the batteries to avoid possible damage from battery leakage.

If you want to put the keyboard in a more 'ergonomical' position, open the keyboard feet.

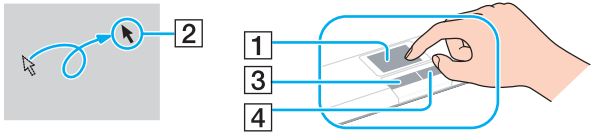
Combinations and Functions with the Fn Key (VGC-V620G only)

Combinations/Feature	*Functions*
Fn + **(F2)**: speaker switch	Turns on and off the built-in speakers and the headphones.
Fn + **(F3/F4)**: speaker volume	Adjusts the built-in speaker volume. To increase volume, press **Fn+F4** and then ↑ or →, or keep pressing **Fn+F4**. To decrease volume, press **Fn+F3** and then ↓ or ←, or keep pressing **Fn+F3**.
Fn + **(F5/F6)**: brightness control	Adjusts the brightness of the LCD. To increase lightness intensity, press **Fn+F6** and then ↑ or →, or keep pressing **Fn+F6**. To decrease lightness intensity, press **Fn+F5** and then ↓ or ←, or keep pressing **Fn+F5**.

Some functions are not available until Windows is launched.

Using the Pointing Device (on Selected Models Only)

The keyboard delivered with VGC-V620G features a pointing device (1), which controls the cursor on the computer screen. You can point to, select and drag objects on the screen using the built-in pointing device.



Action	*Description*
Point	Slide one finger on the pointing device to place the pointer (2) on an item or object.
Click	Press the left button (3) once.
Double-click	Press the left button twice.
Right-click	Press the right button (4) once. In many applications, this action displays a shortcut menu.
Drag and select	Slide one finger while pressing the left button.

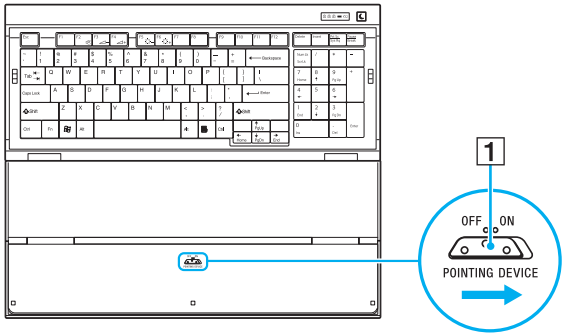
Before You Use the Pointing Device

Before attempting to use the pointing device, you must activate it.

To activate the pointing device

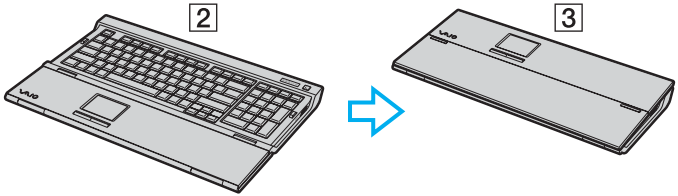
1 Fold the keyboard out.

2 Slide the **POINTING DEVICE** switch (1) to **ON** position.



3 Close the lower part of the cover as shown in (2).
You can now use the pointing device together with your keyboard.

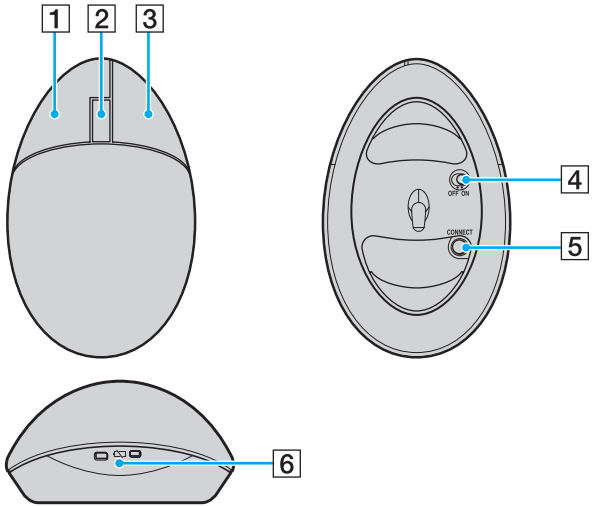
4 If you only want to use the pointing device, close the cover completely as shown in (3).



Using the Mouse

Your computer includes a wireless optical mouse, which has no cables to plug in and uses a light-emitting diode (LED) instead of a ball. You can use the mouse anywhere you feel comfortable within a range of approximately 31 inches (80 cm)* of the main unit. Avoid using the mouse on a piece of glass or other transparent material; this can interfere with smooth cursor movement on the screen.

* Effective usage distance depends on the environment.



1 Left button
Click or double-click the left button to select items. To drag and drop items, hold the left button down while sliding the mouse, then release the button to drop the item.

2 Central wheel
Rotate the central wheel to scroll up or down a page. Press the wheel once to lock the scroll action and control the movement by moving the entire mouse (the scroll function is available only with applications that support it).

3 Right button
Press the right button once to display a context-sensitive shortcut menu (not always an active function).

4 Power switch
Slide the switch to turn the mouse on and off. You can save battery power by turning off the mouse if you do not use it for a long period of time.

5 **CONNECT** button
Press to enable communication between your VAIO computer and the wireless mouse.

6 Battery indicator (VGC-V620G only)
Blinks when the mouse batteries are running out of power.

Before You Use the Mouse

Before using the wireless mouse, you must establish communication between the computer and the mouse.

To maintain good communication, operate your wireless mouse within the distance limitations of the mouse: approximately 32 feet (10 m) for VGC-V620G or 2.5 feet (80 cm) for VGC-V617G/V600MG from the main unit.

Confirm that the supplied AA batteries are properly installed.

Press the **CONNECT** button located on the right panel of the computer first, and then press the **CONNECT** button on the bottom of the mouse.

Avoid using radio-controlled toys or equipment, CB radios, and other wireless devices in the area near your wireless mouse. These devices may cause interference, causing your mouse to stop working properly.

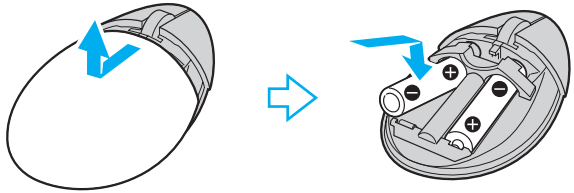
Do not place metal furniture near your computer or wireless mouse, as this may create interference, causing your mouse to stop working properly.

Do not mix old (used) and new batteries when replacing batteries in the wireless mouse. Always use the same type and manufacture of battery.

Do not mix alkaline with manganese batteries. Using incompatible batteries or mixing used, new or different types of batteries can damage the mouse.

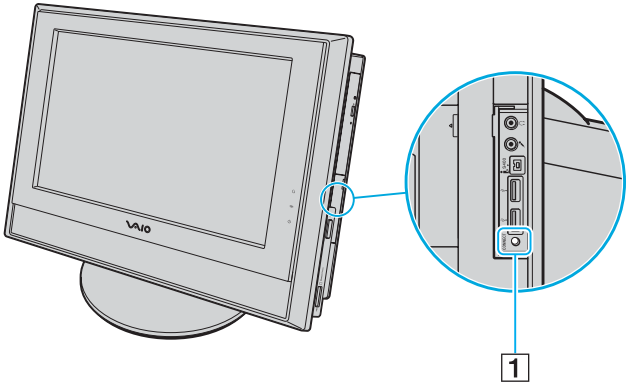
To connect the wireless mouse

1 Insert the two specific AA batteries into the wireless mouse as shown.

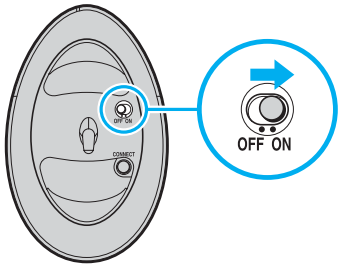


2 Turn on the computer.

3 Press the **CONNECT** button (1) on the computer.



4 Turn over the wireless mouse, slide the power switch to the **ON** position, and press the **CONNECT** button. Communication between the wireless mouse and the computer should now be established.



Step 3 and 4 must be completed within 10 seconds of each other.

Two AA batteries, specific for use in the wireless mouse, are supplied with your computer. They are identified by a sticker "For mouse" on the packaging.

If your wireless mouse does not operate properly, the batteries may need to be replaced. If your wireless mouse is not being used for an extended period of time, remove the batteries to avoid possible damage from battery leakage.

Adjusting the Mouse Functions

1 Click **Start** and then **Control Panel**.

2 Click **Printers and Other Hardware**.

3 Click the **Mouse**.
The **Mouse Properties** window appears.

4 Change the settings.

To set up your mouse for left-handed users

1 Click the **Buttons** tab on the **Mouse Properties** window.

2 Select the option button next to **Switch primary and secondary buttons**.

3 Click **OK**.
The new mouse settings are now active.

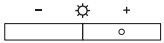
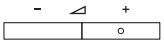
Using Special-function Buttons

Your VAIO computer is provided with special buttons to help you use specific functions of the computer.

VGC-V620G

Special-function button	*Functions*
Standby button	Places the computer in **Standby** mode. Press the power button or the **Standby** button briefly to resume normal operation.

VGC-V617G/V600MG

Special-function button	*Functions*
Standby button	Places the computer in **Standby** mode. Press the power button or the **Standby** button briefly to resume normal operation.
S buttons	Press to activate specific applications. You can also link to these shortcut buttons another action that you execute often. See **Setting Up Your Computer with VAIO Control Center** **(page 92)**.
Brightness buttons 	Press increase (+) or decrease (-) the brightness of the computer screen.
Mute buttons	Press to turn off speaker sound. Press again to restore sound.
Volume control buttons 	Press to increase (+) or decrease (-) the speaker volume.

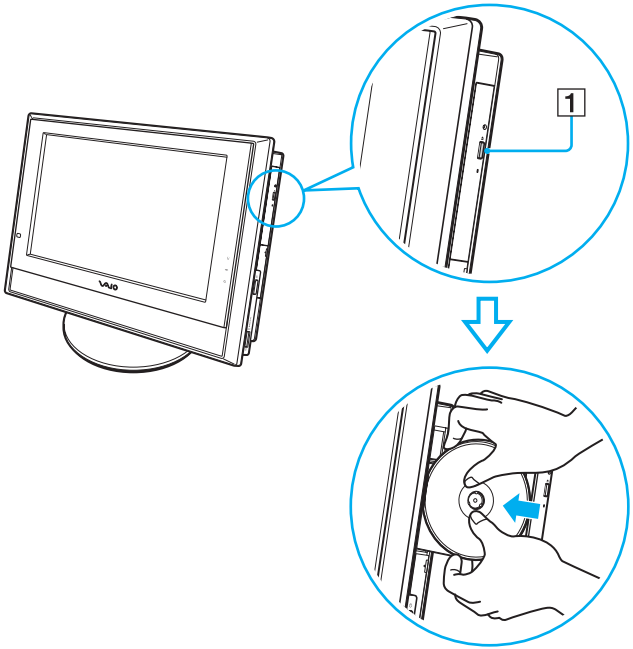
Using the Optical Disc Drive

Your computer is equipped with an optical disc drive.

To insert a disc

1. Turn on the computer.
2. Press the drive eject button (1) to open the drive. The tray slides out.

3 Slide a disc from the right onto the disc tray and place it in the middle of the tray with the label facing toward the front of the computer until the disc clicks into place.



! The disc tray is equipped with components sensitive to static electricity on its back. Keep your fingers away from those components when placing a disc on the tray.

4 Close the tray by pushing it in gently.

!
Do not remove the optical disc when the computer is in a power saving mode (**Standby** or **Hibernate**). Doing so may cause the computer to malfunction.

✍
If you plan to use an external optical disc drive, connect the drive before you launch any preinstalled CD/DVD program.

Reading and Writing CDs and DVDs

Your computer plays and records CDs and DVDs, depending on the model you purchased. Check your specifications for the type of optical disc drive installed on your computer. Use the table below to see which types of media your optical disc drive supports.

Optical disc drive	*Plays*	*Records to*
CD-ROM	CD, CD-R, and CD-RW	—
CD-RW	CD, CD-R, and CD-RW	CD-R and CD-RW
CD-RW/DVD-ROM	CD, CD-R, and CD-RW, DVD and most DVD-R and DVD-RW	CD-R and CD-RW
DVD-RW	CD, CD-R, and CD-RW DVD, DVD-R, and DVD-RW	CD-R and CD-RW DVD-R and DVD-RW
DVD±RW	CD, CD-R, and CD-RW DVD, DVD-R, DVD-RW, DVD+R, DVD+R DL (Double Layer)* and DVD+RW	CD-R and CD-RW DVD-R, DVD-RW, DVD+R, DVD+R DL (Double Layer)* and DVD+RW

* On selected models only.

!
This product is designed to playback discs that conform to the Compact Disc Digital Audio standard specifications (CD Standard). A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. Please be aware that the audio side (non-DVD side) of a DualDisc may not play on this product because it does not conform to the CD Standard.

!
Due to the multiple formats of discs now available, when buying pre-recorded or blank discs for use with a Sony VAIO computer, be sure to read the notices on the disc packaging carefully to check both playback and recording compatibility with your computer's optical disc drives. Sony does NOT guarantee the compatibility of VAIO CD drives with discs that not compliant with the official "CD" format standard (or "DVD" standard in relation to DVD drives). USING NON-COMPLIANT DISCS CAN CAUSE FATAL DAMAGE TO YOUR VAIO PC OR CREATE SOFTWARE CONFLICTS AND CAUSE SYSTEM HANGING.
For inquiries about disc formats, contact the individual publisher of the pre-recorded disc or the manufacturer of the recordable disc.

Notes on writing data onto a disc

- To make the data on a disc readable on an optical disc drive, you need to close the session when you eject it. To complete this process, follow the instructions included with your software.
- Only use circular discs. Do not use discs in any other shape (star, heart, card, etc.), as this may damage the optical disc drive.
- Do not strike or shake the computer while writing data onto a disc.
- Deactivate the screen saver and exit anti-virus software before writing data onto a disc.
- Do not use memory-resident utility software while writing data to a disc. This may cause the computer to malfunction.
- When using your software application to burn discs, make sure you exit and close all other applications.
- Never touch the surface of the disc. Fingerprints and dust on the surface of a disc may cause writing errors.
- Do not switch power modes while using the pre-installed software and while using the CD burning software.
- Never put stickers on discs. This will affect the use of the disc irreparably.
- Some DVD players and computer's DVD drives may not be able to play DVDs created by the **VAIO Zone** software.

Ultra-speed CD-RW is supported.

Supports writing to DVD-RW discs compliant with DVD-RW version 1.1/1.2.

Supports 8cm disc reading, but does not support 8cm disc writing.

Because the maximum writing speed to DVD+R DL (Double Layer) discs is 2.4x speed, it may take a while to finish writing to such discs. See the online **Specifications** sheet for more information on the optical disc drive.

Notes on playing DVDs

To achieve optimum performance when playing DVDs, you should follow these recommendations.

- You can play DVDs using the optical disc drive and the **VAIO Zone** software. See the help file on the **VAIO Zone** software for details.
- Close all open applications before playing a DVD movie.
- Do not use memory-resident utility software to speed up disc access when playing a DVD. This may cause the computer to malfunction.
- Deactivate the screen saver and exit anti-virus software before playing a disc.
- Some discs recorded at 20 or 24 bits may produce noise while playing. If you have audio devices connected, this may damage your hearing and the speakers. Reduce the volume before playing a DVD.
- Do not switch power saving modes while the computer is playing a DVD.
- Region code indicators are labeled on the DVDs to indicate in which region and on what type of player you can play the disc. If the DVD is labeled "all," this means that you can play this DVD in most regions of the world. If the region code of your residence area is different from the label on the DVD disc or on the packaging, you cannot play the disc on this player.

Playing CDs

To play an audio CD

1. Insert the disc into the optical disc drive.
2. If nothing appears on the desktop once you insert an audio CD disc, then click **Start**, point to **All Programs**, and click to open a CD program, such as the **SonicStage** software.

   If the **Audio CD** window appears, click to select an option.

Copying Files to CDs

To determine which type of CD your computer supports, see **Reading and Writing CDs and DVDs (page 42)**.

To copy files to a CD-RW or CD-R

1. Insert a blank CD-R or CD-RW disc into the optical disc drive.
   If the **CD Drive** window appears, click **Take no action**.
2. Open Windows Explorer by pressing the **Windows** key and the **E** key simultaneously.
3. In the **Folders** panel on the left, locate the file(s) or folder(s) you want to copy and either:
   - ❑ Right-click the file(s) or folder(s), point to **Send To**, and click the optical disc drive* name.
   - ❑ Drag the file(s) or folder(s) onto the optical disc drive icon in the **Files Stored on This Computer** panel.
4. Close Windows Explorer.
5. Click **Start** and then **My Computer**.
6. Click the optical disc drive icon under **Devices with Removable Storage**. A new window appears with the file(s) or folder(s) you want to copy listed under **Files Ready to Be Written to the CD**.
7. In the **CD Writing Tasks** box, click **Write these files to CD**.
8. Follow the instructions in the **CD Writing Wizard**.

* The read/write drive letter designation may vary, depending on your system's hardware configuration.

! Do not strike or shake the computer while writing data onto a disc.

Playing DVDs

To play a DVD

1 Close all open programs.

2 Insert the DVD into the optical disc drive.

3 Click **Start** and point to **All Programs**.

4 Select a DVD software program to play the DVD.

For instructions on how to use a program, see the help guide included with the DVD software program.

Copying Files to DVDs

To copy files to a DVD-R or DVD-RW

1 Insert the disc into the optical disc drive.

2 Click **Start** and point to **All Programs**.

3 Select a DVD software program you want to use from the submenu.

For instructions on how to use a program, see the help guide included with the DVD software program.

Using the TV Function

Your computer is equipped with a TV tuner board. In combination with Sony's **VAIO Zone** software, the TV tuner board allows you to:

- Watch, record and play back analog broadcasted cable and terrestrial TV programs, all by remote control.
- Digitize analog video and audio using the S-video or composite and audio inputs.
- Manage your video units (capsules), preview them and create multiple folders.
- Set up a timer to record channels at a repeated time.
- Suspend viewing TV (time-shifting).
- Stream your recorded TV contents via Ethernet (or WLAN) to connected PCs.

Sony cannot guarantee the streaming of recorded content if it is beyond a certain level of high quality.

To use the **VAIO Zone** software, you need to connect your computer and TV; and click **Start** and then **VAIO Zone**. When starting the **VAIO Zone** software for the first time, the VAIO Zone setup wizard opens automatically and prompts you to set up your TV channel source and establish the listings for your local TV program guide. Follow the on-screen instructions.

For details on using the software and the remote commander, please see the help file in the **VAIO Zone** software.

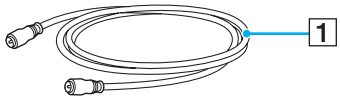
Setting Up TV Connections

The best method of connecting your computer system, TV monitor or display, and cable service access, depends on the type of cable connection available in your home.

TV signal reception strength will vary widely depending on service availability in your area as well as the type of connection available.

One primary cable to connect your computer to a TV cable or antenna is the TV coaxial cable (supplied with your computer). One end connects to the computer's VHF/UHF port, and the other end connects to the cable service access or antenna.

Note that you need to slide the back panel cover up to access the VHF/UHF port.



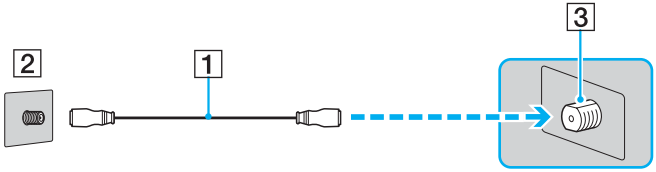
1 TV coaxial cable

Connecting to standard cable access (CATV)

To connect in CATV mode (Option 1)

1 Connect one end of the TV coaxial cable (1) (supplied) to your cable service access (wall outlet) (2).

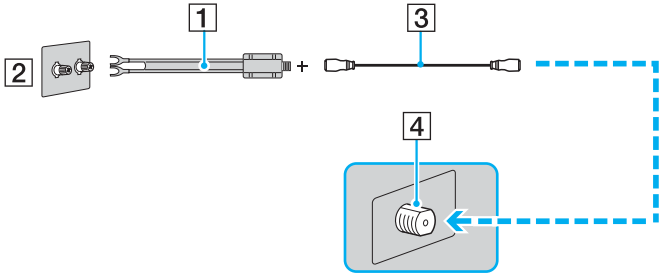
2 Connect the other end of the coaxial cable to the VHF/UHF port (3) on the computer.



To connect in CATV mode (Option 2)

1 Connect the two metal hooks on the 75-ohm/300-ohm RCA transformer cable (1) (optional) to your cable service access (wall outlet) (2).

2 Connect the TV coaxial cable (3) (supplied) from the transformer end of the RCA transformer cable to the VHF/UHF port (4) on the computer.



Connecting to a standard antenna

You can connect your computer to an indoor/outdoor antenna system, using Option 1 or Option 2 from the previous section, **Connecting to standard cable access (CATV)** (page 49). Depending on the type of antenna system in your home, your connection may require a VHF/UHF RF combiner/transformer (optional) to connect your computer and the indoor/outdoor antenna system.

If you are connecting to an indoor/outdoor antenna, you may need to reorient the antenna for best reception. Move the antenna cable away from other power sources or connectors to reduce reception interference.

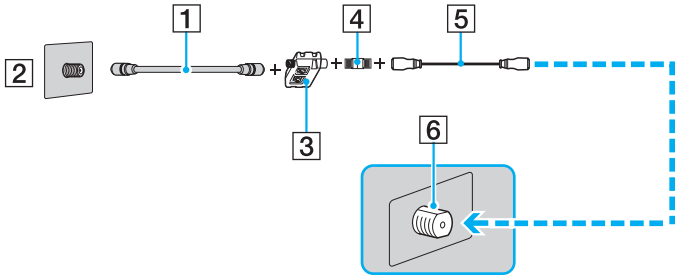
Your computer is supplied with certain audio and video cables. Depending on your in-home cable access, you may require extra cables, adapters or connection equipment not supplied with your computer.

To connect in terrestrial mode (Option 1)

1 Connect one end of a TV coaxial cable (1) (optional) to your antenna outlet (2). Connect the other end to a VHF/UHF RF combiner/transformer (3) (optional).

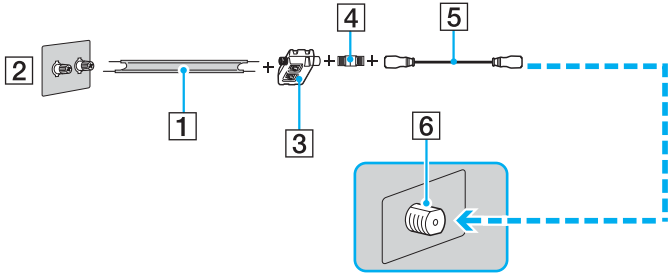
2 Connect the coaxial cable feed connector (4) (optional) to the VHF/UHF RF combiner/transformer (3).

3 Connect the TV coaxial cable (5) (supplied) from the feed connector (4) to the VHF/UHF port (6) on the computer.



To connect in terrestrial mode (Option 2)

1. Connect one end of the antenna's 300-ohm twin lead cable (1) to the screw-type grips at your antenna outlet (2). Connect the other end to the grips on the VHF/UHF RF combiner/transformer (3).
2. Connect the coaxial cable feed connector (4) (optional) to the VHF/UHF RF combiner/transformer (3).
3. Connect the TV coaxial cable (5) (supplied) from the feed connector (4) to the VHF/UHF port (6) on the computer.



Connecting with a cable or satellite set-top box (STB)

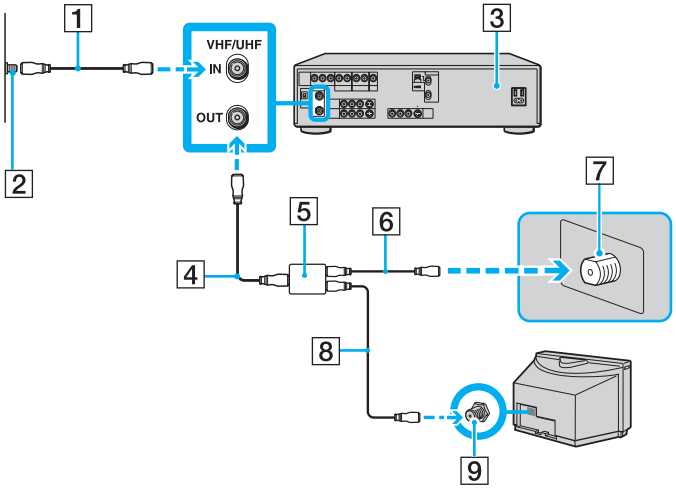
You can connect your computer to cable service access that uses a set-top box (cable or satellite). When using the set-top box (STB) setup, you can only change channels through the STB, using its controls or supplied remote commander.

When using the STB setup:

- A standard TV remote control cannot be used to change TV channels. You can use your TV remote control to set the TV to the channel-out number (channel 3, 4, etc.) or direct video input specified by your cable or satellite service provider.
- You may be able to use a universal remote control or commander to change TV channels, if the device is able to control the STB.

To connect in STB mode (Option 1)

1. Connect one end of a TV coaxial cable (1) (optional) to your cable service access (wall outlet) (2). Connect the other end to the VHF/UHF IN jack on the back panel of your set-top box (STB) (3).
2. Connect a second TV coaxial cable (4) (optional) to the VHF/UHF OUT jack on your STB unit (3). Connect the other end to the single-connection end of a splitter device (5) (optional).
3. Connect a third TV coaxial cable (6) (supplied) to the double-connection end of the splitter device (5). Connect the other end to the VHF/UHF port (7) on the computer.
4. Connect a fourth TV coaxial cable (8) (optional) to the double-connection end of the splitter device (5). Connect the other end to the VHF/UHF port (9) on the rear of your TV monitor or display.



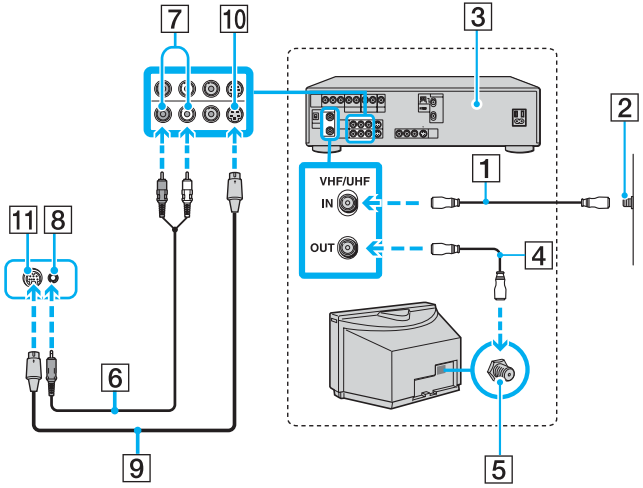
To connect in STB mode (Option 2)

1 Connect one end of the TV coaxial cable (1) (supplied) to your cable service access (wall outlet) (2). Connect the other end to the VHF/UHF IN jack on the back panel of your set-top box (STB) (3).

2 Connect a second TV coaxial cable (4) (optional) to the VHF/UHF OUT jack on your STB unit (3). Connect the other end to the VHF/UHF port (5) on the rear of your TV monitor or display.

3 Connect the double mini-plugs of the audio cable (6) (supplied) to the Composite Audio Out (L/R) jacks (7) on the back panel of your STB unit (3), matching the jack colors. Connect the single plug end of the audio cable (6) to the Composite Audio In jack (8) on the computer.

4 Connect one end of the S Video cable (9) (optional) to the Composite Video Out jack (10) on the back panel of your STB unit (3). Connect the other end of the same S Video cable to the S Video In jack (11) on the computer.



The video cable adapter (supplied) can be used with a video cable (optional) to connect your set-top box to the computer's S Video In jack.

Using PC Cards

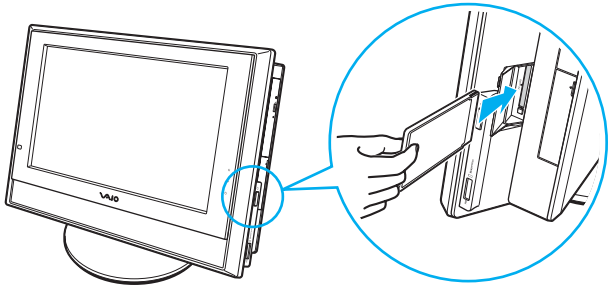
PC Cards allow you to connect portable external devices.

Inserting a PC Card

To insert a PC Card

1 Insert the PC Card into the PC Card slot with the label facing toward the front of the computer.

2 Gently push the PC Card into the slot.
The PC Card is automatically detected by your system.
The **Safely Remove Hardware** icon appears on the taskbar.



Some devices may not function properly if you continually switch to **Normal** mode from **Standby** mode or **Hibernate** mode. For some PC Cards, if you alternate between **Normal** mode and **Standby** or **Hibernate** mode while the card is inserted, you may find that a device connected to your system is not recognized. Restart your system to correct the problem. Restarting will restore the original state of the computer.

While the card is inserted, your computer may not enter **Hibernate** power management mode. It may enter **Standby** mode. We recommend that you remove the card before your computer enters **Hibernate** mode.

Some PC Cards or their functions may not be compatible with your computer.

Make sure you use the most recent software driver provided by the PC Card manufacturer.

If an "!" mark appears on the **Device Manager** tab in the **System Properties** window, remove the software driver and then reinstall it.

Do not force a PC Card into the slot. It may damage the connector pins. If you have difficulty inserting a PC Card, check that you are inserting the PC Card in the correct direction. See the manual supplied with your PC Card for more information on use.

Do not carry your computer while touching the head of a PC Card, because pressure or shock may damage the connector pins.

You do not need to shut down your computer before inserting or removing a PC Card.

Removing a PC Card

Follow the steps below to remove the PC Card while your computer is on. If it is not removed properly, your system may not work properly.

To remove a PC Card

To remove a PC Card when your computer is off, skip steps 1 to 7.

1. Double-click the **Safely Remove Hardware** icon on the taskbar.
   The **Safely Remove Hardware** window appears.
2. Select the hardware you want to unplug.
3. Click **Stop**.
   The **Stop a Hardware Device** window appears.
4. Confirm that the device can be safely removed from the system.
5. Click **OK**.
   A window appears, explaining that it is safe to remove the device.
6. Click **OK**.
7. Click **Close**.
8. Push the PC Card release button so that the release button pops out.
9. Push the PC Card release button a second time so that the PC Card pops out.
10. Gently take hold of the Card and pull it out of the slot.
11. If the PC Card release button is still out, push it back in.

If you remove the PC Card from the computer when it is still turned on, your system could malfunction and you might lose any unsaved data.

Before you remove the PC Card, click the PC Card icon on the taskbar and close the card. Close any applications that use the PC Card before removing the card. Otherwise, data may be lost.

Using the Memory Stick Media

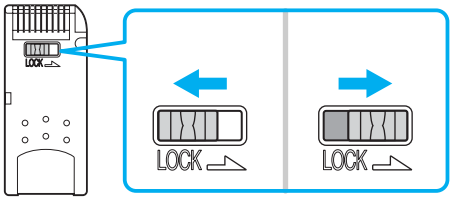
Your VAIO computer supports the Memory Stick media. Memory Stick media is a compact, portable, and versatile device especially designed for exchanging and sharing digital data with compatible products, such as digital cameras, mobile phones and other devices. Because it is removable, it can be used for external data storage.

For the latest information on Memory Stick media, visit the Sony online support Web site at http://www.sony.com/pcsupport for customers in USA and Canada, or at http://kdb.sony-latin.com/ for customers in Latin American countries or areas.

Write-protecting a Memory Stick Media

Some versions of Memory Stick media are designed with an erasure prevention switch to protect valuable data from accidental erasure or overwriting.

Move the tab horizontally or vertically* to set or release write-protection. When the erasure prevention switch is off, data can be saved on the Memory Stick media. When the erasure prevention switch is on, data can be read from but not saved on the Memory Stick media.



* Some versions of Memory Stick media do not have an erasure prevention switch.

Inserting a Memory Stick Media

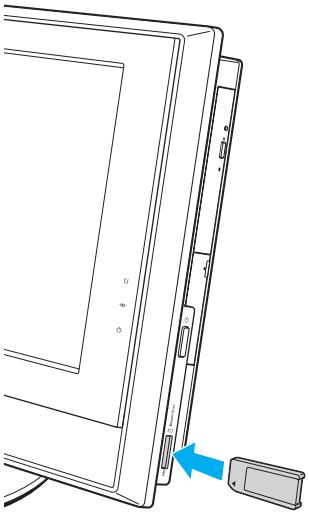
There are two ways you can insert a Memory Stick media into your computer:

- Using the Memory Stick media slot;
- Using a PC Card slot. To do this, you need an optional PC Card adapter.

You can only insert one Memory Stick media at a time.

To insert a Memory Stick media using the Memory Stick media slot

1. Hold the Memory Stick media with the arrow facing toward the front of your computer and insert it into the Memory Stick media slot in the direction of the arrow.
2. Carefully slide the Memory Stick media into the slot until it clicks in place.
   The Memory Stick media is automatically detected by your system and appears in your **My Computer** window as a local drive, under the appropriate letter (depending on the configuration of your computer).



!
Be sure to hold the Memory Stick media with the arrow pointing in the correct direction as you insert it into the slot. To avoid damaging the computer or the Memory Stick media, do not force the Memory Stick media into the slot if it does not insert smoothly.

Do not insert more than one Memory Stick media into the Memory Stick media slot. Inserting the media improperly may damage the computer.

✍
Your computer supports Memory Stick Duo media. For more information on Memory Stick Duo media, visit the Memory Stick web site at http://www.memorystick.com/en/.

Viewing the Contents

Depending on the model you purchased, the **Memory Stick** window may appear when you insert a Memory Stick media. From this window, you can choose to view, print, copy or organize your images or data stored on the Memory Stick media. If the **Memory Stick** window does not appear when you insert the Memory Stick media, follow these steps:

To view the contents

1. Click **Start** and then **My Computer**.
   The **My Computer** window appears.
2. Click **Memory Stick**.
   The **Memory Stick** window appears, displaying the contents stored on the Memory Stick media.

Formatting a Memory Stick Media

Memory Stick media is formatted for immediate use when you purchase it. If you need to reformat Memory Stick media, use the **Memory Stick Formatter** software that is provided with the media. For more information about using Memory Stick Formatter, see the **Memory Stick Formatter** help file.

!
Formatting Memory Stick media erases all data previously saved to it. Before you reformat Memory Stick media, confirm that the media does not contain files you want to keep. Back up important data before formatting the media.

To format a Memory Stick media

1. Click **Start**, point to **All Programs**, **Memory Stick Utility**, and click **Memory Stick Formatter**.
   The **Memory Stick Formatter** window appears.
2. Click **Start Format**, and follow the on-screen instructions.
3. After formatting, click **Exit**.

Removing a Memory Stick Media

To remove a Memory Stick media using the Memory Stick media slot

1. Check that the Memory Stick media indicator is off.
2. Push the Memory Stick media in toward the computer.
   The Memory Stick media ejects.
3. Pull the Memory Stick media out of the slot.

!
Always remove the Memory Stick media gently, or it may pop out unexpectedly.

Do not remove the Memory Stick media while the Memory Stick media indicator is turned on. If you do, you may lose data. Large volumes of data may take time to load, so be sure the indicator is off before removing the Memory Stick media.

Using the Internet

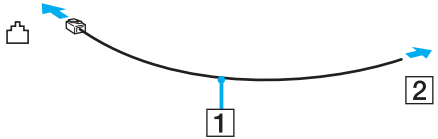
Setting Up a Dial-up Internet Connection

Before you can connect to the Internet, you need to connect your computer to a telephone line via a telephone cable (supplied with VGC-V600MG only). Once you set up your telephone cable, you're ready to connect to the Internet.

Note that you need to slide the back panel cover up to access the modem port .

To connect a telephone cable

1 Plug one end of the phone cable (1) into the modem port on the computer.
2 Plug the other end into the wall jack (2).



Your computer does not work with party lines, cannot be connected to a coin-operated telephone, and may not work with multiple telephone lines or a private branch exchange (PBX). Some of these connections may result in excess electrical current and could cause a malfunction in the internal modem.

If you connect a telephone cable coming through a splitter, the modem or connected device may not work properly.

To set up a dial-up connection to the Internet

1 Click **Start**, point to **All Programs**, **Accessories**, **Communications**, and click **New Connection Wizard**.
The **New Connection Wizard** appears.
2 Click **Next**. If the **Location Information** window appears, follow the on-screen instructions.
3 If it is not already selected, click to select **Connect to the Internet**, and click **Next**.
4 Follow the on-screen instructions.

Using Wireless LAN (WLAN)

Using the Sony Wireless LAN (WLAN), all your digital devices with built-in WLAN functionality communicate freely with each other through a powerful network. A WLAN is a network in which a user can connect to a local area network (LAN) through a wireless (radio) connection. So there is no need anymore to pull cables or wires through walls and ceilings.

You can communicate without an Access Point, which means that you can communicate between a limited number of computers (**ad-hoc**). Or you can communicate through an Access Point, which allows you to create a full infrastructure network (**infrastructure**).

WLAN uses the IEEE802.11b/g standard, which specifies the used technology. The standard includes the encryption method: **Wired Equivalent Privacy** (WEP), which is a security protocol and **WiFi Protected Access** (WPA - Proposed jointly by the IEEE and Wi-Fi Alliance, WiFi Protected Access is a specification of standards based, interoperable security enhancements that increase the level of data protection and access control for existing WiFi networks. WPA has been designed to be forward compatible with the IEEE802.11i specification. It utilizes the enhanced data encryption TKIP (Temporal Key Integrity Protocol) in addition to user authentication using 802.1X and EAP (Extensible Authentication Protocol)). Data encryption protects the vulnerable wireless link between clients and Access Points. Besides that, there are other typical LAN security mechanisms to ensure privacy, such as: password protection, end-to-end encryption, virtual private networks, and authentication.

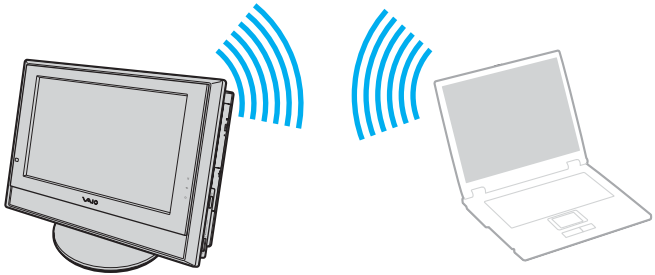
Wireless LAN devices using the IEEE802.11a standard and the ones using the IEEE802.11b or g standard cannot communicate because the frequencies are different.

IEEE802.11b: The standard speed is 11 Mbps, or about 30 to 100 times faster than a standard dial up.

IEEE802.11a/g: The standard speed is 54 Mbps, or about 5 times faster than a Wireless LAN device using the IEEE802.11b standard.

Communicating without an Access Point (Ad-hoc)

An ad-hoc network is a network in which a local network is created only by the wireless devices themselves, with no other central controller or Access Point. Each device communicates directly with other devices in the network. You can set up an ad-hoc network easily at home.



To communicate without an Access Point (ad-hoc)

1. Turn on the **WIRELESS LAN** switch.
   The WIRELESS LAN indicator lights up.
2. Click **Start** and then **Control Panel**.
3. Click **Network and Internet Connections**.
4. Click **Network Connections**.
   The **Network Connections** window appears.
5. Right-click **Wireless Network Connection**, then click **Properties**.
   The **Wireless Network Connection Properties** window appears.
6. Select the **Wireless Networks** tab.

7 Click the **Add…** button.
The **Wireless network properties** window appears.

8 Enter a **Network name (SSID)**[*1].
You can choose a **32-digit** alphanumeric name.

9 Select **Open** from the **Network Authentication** drop-down box.

10 Select **WEP** from the **Data Encryption** drop-down box.

11 Deselect the **The key is provided for me automatically** option button.
Some information becomes visible.

12 Enter the **Network key**[*1].
The network key should be **5 or 13 alphanumeric characters** or **10 or 26 hexadecimal**[*2] **characters** long. You can choose whatever you want.

13 Enter exactly the same **Network key** again, for confirmation.

14 Select the check box **This is a computer-to-computer (ad hoc) network; wireless access points are not used** at the bottom of the screen.

15 Click **OK**.
Your **Network name** appears in the **Preferred networks**.

16 Click **Advanced**.
The **Advanced** window appears.

17 Select the **Computer-to-computer (ad hoc) networks only** option button.

18 Click **Close**.

19 Click **OK**.
Your computer is ready to communicate with another computer.

*1 If you want to communicate between two or more computers, you need to configure all these computers the exact same way. This means that you need to enter the same **Network name** and the same **Network key** on all computers as on the first computer you configure.

*2 **Hexadecimal**: A number representation using the digits 0-9, with their usual meaning, plus the letters A-F (or a-f) to represent hexadecimal digits with values of (decimal) 10 to 15.

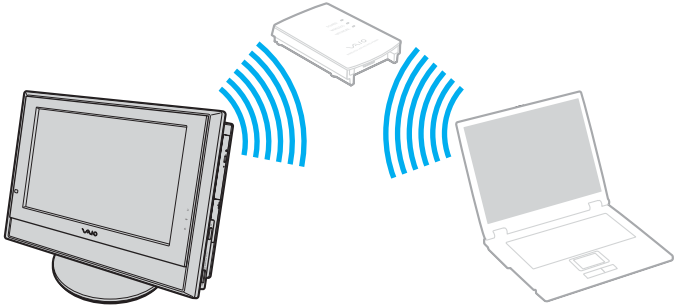
✍ An ad-hoc network does not support WPA.

To disconnect from a computer-to-computer (ad-hoc) network

1. Click **Start** and then **Control Panel**.
2. Click **Network and Internet Connections**.
3. Click **Network Connections**.
   The **Network Connections** window appears.
4. In the right panel under **LAN or High-Speed Internet**, double-click **Wireless Network Connection**.
   The **Wireless Network Connection Status** window appears.
5. Click **Properties**.
   The **Wireless Network Connection Properties** window appears.
6. On the **Wireless Networks** tab, click **Advanced**.
   The **Advanced** window appears.
7. Click to select **Any available network (access point preferred)**, and click **Close**.
8. Click **OK**.
9. Click **Close**.
10. Turn off the **WIRELESS LAN** switch.

Communicating with an Access Point (Infrastructure)

An infrastructure network is a network that extends an existing wired local network to wireless devices by providing an Access Point, for example the **Sony Access Point**. The Access Point bridges the wireless and wired LAN and acts as a central controller for the Wireless LAN. The Access Point coordinates transmission and reception from multiple wireless devices within a specific range.



To connect to a wireless network

Use the **VAIO Wireless Utility** to guide you through the set up process and provide you with more detailed information about wireless connections.

1. Make sure an access point is set up. See the instructions that accompanied the access point for more information.
2. Turn on the **WIRELESS LAN** switch.
   The WIRELESS LAN indicator lights up.
3. Click **Start**, point to **All Programs**, and click **VAIO Wireless Utility**.
   The **VAIO Wireless Utility** appears.
4. Follow the on-screen instructions.

To disconnect from a wireless network

❑ Turn off the **WIRELESS LAN** switch.

!
Turning off the wireless LAN functionality while accessing remote documents, files, or resources may result in data loss.

✍
The WPA key needs to contain at least 8 characters.

Wireless LAN Channel Selection

In an 802.11b/g configuration, channel 1 to 11 can be used.

(a) With an Access Point ("Infrastructure")

- The channel used will be the channel selected by the Access Point.

  !
  For details on how to select the channel that will be used by the Access Point, see the access point manual.

(b) Without an Access Point ("ad-hoc")

- If the Wireless connection is initiated by the VAIO computer, channel 11 will be selected.
- If the Wireless connection is initiated by a peer Wireless LAN equipment, the Wireless LAN communication will make use of the channel selected by the peer Wireless LAN equipment.

  ✍
  The 2.4 GHz bandwidth used by wireless LAN compatible devices is also used by other various devices. Although technologies to minimize interference from other devices that uses the same bandwidth are employed on wireless LAN compatible devices, such interference may cause lower communication speed, narrower communication range, or broken wireless connections.

  The communication speed varies depending on the distance between communication devices, existence of obstacles between such devices, the device configuration, the radio conditions, and the software in use. In addition, communications may be cut off depending on the radio conditions.

  The communication range varies depending on the actual distance between communication devices, existence of obstacles between such devices, the radio conditions, the ambient environment that includes existence of walls and materials of such walls, and the software in use.

  Deploying IEEE802.11b and IEEE802.11g products on the same wireless network may reduce the communication speed due to radio interference. Taking this into consideration, the IEEE802.11g products are designed to reduce the communication speed to ensure communications with IEEE802.11b products. When the communication speed is not as fast as expected, changing the wireless channel on the access point may increase the communication speed.

Using Peripheral Devices

You can add functionality to your computer by using the various ports on your unit.

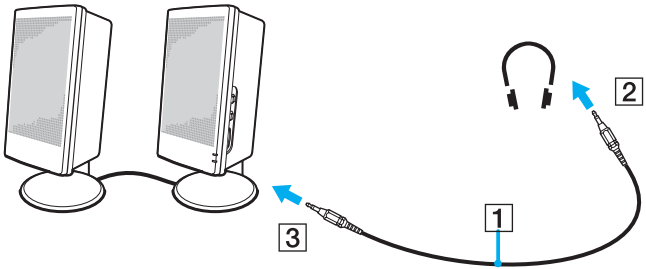
❑ **Connecting External Speakers (page 76)**
❑ **Using the Remote Commander (page 77)**
❑ **Connecting an External Microphone (page 80)**
❑ **Connecting a Universal Serial Bus (USB) Device (page 81)**
❑ **Connecting a Printer (page 84)**
❑ **Connecting an i.LINK Device (page 85)**
❑ **Connecting to a Network (LAN) (page 87)**

Connecting External Speakers

You can enhance the sound quality of your computer by connecting external speakers.

To connect external speakers

1. Plug the speaker cable (1) into the headphones jack (2) ∩.
2. Plug the other end of the speaker cable to the external speaker (3).
3. Turn down the volume of the speakers before you turn them on.



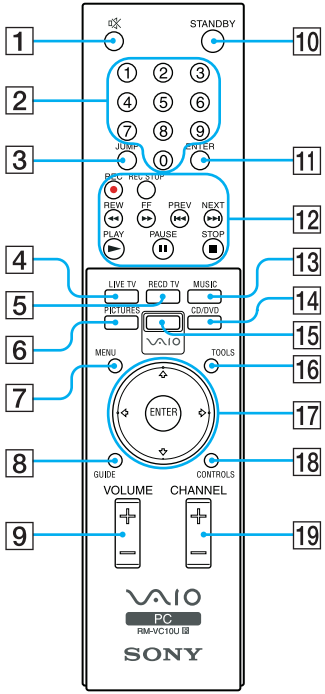
✍
Make sure your speakers are designed for computer use.

!
Do not place floppy disks on the speakers; their magnetic field may damage the data on the disks.

Using the Remote Commander

A remote commander is delivered with your computer for extended use of the **VAIO Zone** software.

Point the remote commander to the infrared receiver on your computer for remote operations. See **Front** **(page 10)** for the location of the infrared receiver on your model.



1 Mute button
Press to turn off the sound. Press again to restore the sound.

2 Channel number buttons (0-9)
Press to select specific channels. (Press the ENTER button to activate channel selection.)

3 **JUMP** button
Press to go to the previous channel. Press again to return to the current channel.

4 **LIVE TV** button
Press to watch current TV programming.

5 **RECD TV** button
Press to start playback of TV programs recorded with the **VAIO Zone** software.

6 **PICTURES** button
Press to watch a photo slide show with the **VAIO Zone** software.

7 **MENU** button
Press to view a shortcut menu of the **VAIO Zone** software options available. Press again to hide this menu.

8 **GUIDE** button
Press to view the TV program guide. (Note: The TV program guide is only available after setting up the TV channels in the **VAIO Zone** software.)

9 **VOLUME** button
Press to raise or lower the volume.

10 **STANDBY** button
Press to place the system into Stand by mode. (Note: You cannot place the computer into Stand by mode when certain **VAIO Zone** functions are running.)

11 **ENTER** button
Press to activate channel selection. See Channel number buttons.

12 **REC** button
Press to begin recording. (Note: The REC function is available for the **VAIO Zone** software only.)
REC STOP button
Press to stop recording. (Note: The REC STOP function is available for the **VAIO Zone** software only.)
REW and **FF** buttons
Press to rewind or fast-forward.
PREV and **NEXT** buttons
Press to move back to the previous screen or forward to the next screen.
PLAY button
Press to begin playback.
PAUSE button
Press to pause playback.
STOP button
Press to stop playback.

13 **MUSIC** button
Press to listen to music using the **VAIO Zone** software.

14 **CD/DVD** button
Press to play DVDs or audio CDs using the **VAIO Zone** software.

15 **VAIO** button
Press to start the **VAIO Zone** software. You can also close the **VAIO Zone** software by pressing this button.

16 **TOOLS** button
Press to display an option menu while using a **VAIO Zone** software feature, such as playing music, or watching a photo slide show.

17 Direction arrows and **ENTER** button
Press a direction arrow to locate and select options in the **VAIO Zone** software. Press **ENTER** to activate the selection.

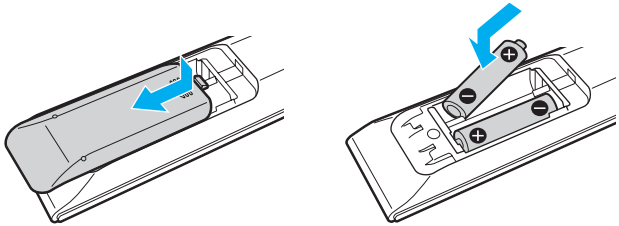
18 **CONTROLS** button
Press to display the playback controls in the **VAIO Zone** software. Press again to hide the playback controls.

19 **CHANNEL** button
Press to change channels automatically (no number input required).

✍
For details on using the software and the remote commander, please see the help file in the **VAIO Zone** software.

Before You Use the Remote Commander

Insert two AA batteries (supplied) into the remote control, as shown below.



!
Do not mix old (used) and new batteries when replacing batteries in the remote control. Always use the same type and manufacture of battery — do not mix alkaline with manganese batteries. Using incompatible batteries or mixing used and new batteries or different types of batteries can damage the remote control.

If your remote control does not operate properly, the batteries may need to be replaced. When your remote control is not being used for extended periods of time, remove the batteries to avoid possible damage from battery leakage.

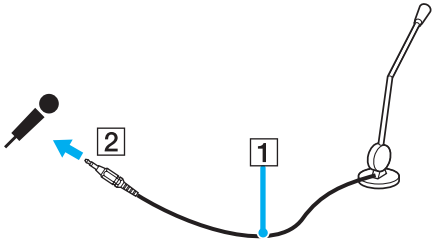
Verify the infrared receiver on the computer's front panel is free of obstructions that may prevent proper operation.

Connecting an External Microphone

If you need to use a sound input device (for example, to chat on the Internet) you need to plug in an external microphone.

To connect an external microphone

Plug the microphone cable (1) into the microphone jack (2) .



Make sure your microphone is designed for computer use.

Connecting a Universal Serial Bus (USB) Device

To prevent your computer and/or USB devices from damage, observe the following:

❑ When moving your computer with USB devices connected, avoid any shock or force to the USB ports.

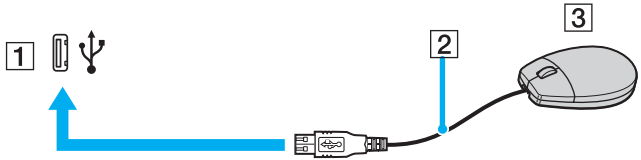
✍ You need to slide the back panel cover up to access the USB ports on the bottom panel.

Connecting a USB Mouse

To connect a USB mouse

1 Choose the USB port (1) you prefer to use.

2 Plug the USB mouse cable (2) into the USB port.
You can now use your USB mouse (3).



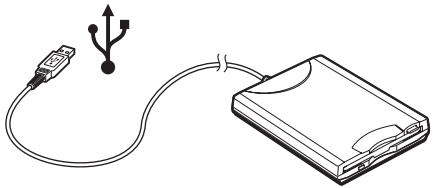
Connecting a USB Floppy Disk Drive

You can purchase a USB floppy disk drive and connect it to your computer.

To connect a USB floppy disk drive

1 Choose the USB port you prefer to use.

2 Plug the USB floppy disk drive cable into the USB port. The VAIO logo on the disk drive should be facing up. Your USB floppy disk drive is now ready for use.



! When using a USB floppy disk drive, do not apply force on the USB port. This may cause a malfunction.

Disconnecting a USB floppy disk drive

You can disconnect a USB floppy disk drive when the computer is on or off. Disconnecting the drive when the computer is in a power saving mode (**Standby** or **Hibernate**) may cause the computer to malfunction.

If your computer is off, you can unplug the USB cable directly from the computer.

To disconnect a USB floppy disk drive

1. Close all programs accessing the floppy disk drive.
2. Double-click the **Safely Remove Hardware** icon on the taskbar.
   The **Safely Remove Hardware** window appears.
3. Select the floppy disk drive you want to unplug.
4. Click **Stop**.
   The **Stop a Hardware device** window appears.
5. Make sure the floppy disk drive is selected, and click **OK**. A message appears stating it is now safe to remove the hardware device.
6. Remove the floppy disk drive from the computer.

Connecting a Printer

You can connect a Windows-compatible printer to your computer to print documents.

Connecting a Printer Using the USB Port

You can connect a USB printer compatible with your version of Windows to your computer.

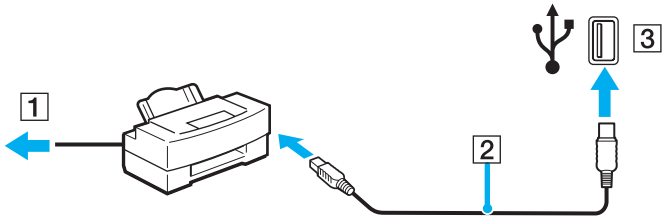
You need to slide the back panel cover up to access the USB ports on the bottom panel.

To connect a printer using the USB port

1 Plug the printer power cord into an AC outlet (1).

2 Choose the USB port (3) you prefer to use.

3 Plug one end of a USB printer cable (2) into the USB port and the other end to your printer.



Connecting an i.LINK Device

Notes on connecting i.LINK devices

- Your computer includes an i.LINK (IEEE1394) port, which you can use to connect to an i.LINK device such as a digital video camera recorder or to connect two VAIO computers in order to copy, delete or edit files.
- The i.LINK port of your computer does not supply power to external devices generally powered by i.LINK ports.
- The i.LINK port supports transfer rates up to 400 Mbps; however, the actual transfer rate depends on the transfer rate of the external device.
- i.LINK cables compatible with your VAIO computer include cables with the following part numbers:
  VMC-IL4415 (a 1.5 meter cable with a 4-pin connector at each end), VMC-IL4408 Series (a 0.8 meter cable with a 4-pin connector at each end).
- The optional i.LINK cables may not be available, depending on your country or region.
- An i.LINK connection with other compatible devices is not fully guaranteed.
- The i.LINK connection varies depending on the software applications, operating system and i.LINK compatible devices you use. Refer to the manual that came with your software for more information.
- Check the working conditions and OS compatibility of i.LINK-compatible PC peripherals (for example, an HDD or CD-RW drive) before you connect them to your computer.

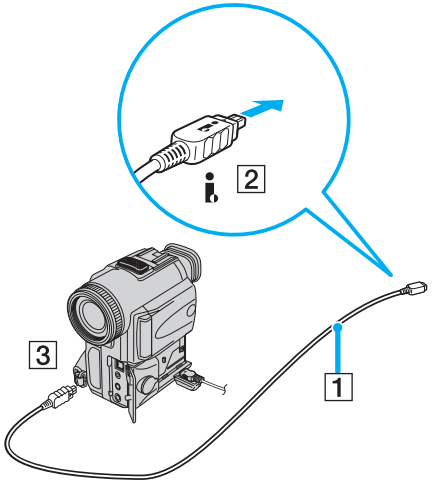
Connecting a Digital Video Camera Recorder

You need to slide the back panel cover up to access the i.LINK port on the bottom panel.

To connect a digital video camera recorder

1 Plug one end of the i.LINK cable (1) into the i.LINK port (2) on the computer and the other end into the DV In/Out ports (3) on the digital video camera recorder.

2 Launch the **DVgate Plus** software.



On Sony digital video cameras, ports labeled **DV Out**, **DV In/Out** or **i.LINK** are i.LINK-compatible.

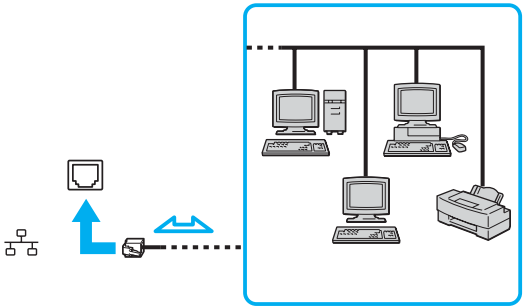
The Sony digital video camera recorder shown here is an example; your digital video camera recorder may need to be connected differently.

You cannot access the pictures stored on a Memory Stick media when using an i.LINK connection.

Connecting to a Network (LAN)

You can connect your computer to 100BASE-TX/10BASE-T-type networks via an Ethernet network cable. Connect one end of an optional network cable to the Network (Ethernet) port on the bottom panel of your computer and the other end to your network. For detailed settings and devices needed to connect to the network, see your Network Administrator.

You need to slide the back panel cover up to access the network (Ethernet) port.



Your computer can be connected to the network with the default settings.

!
Network and telephone lines cannot be connected to the Network (Ethernet) port on your computer. If the following connectors are connected to the telephone lines mentioned below, high electric current to the connectors may cause damage, overheating or fire.

- Home (intercom speakerphone) or business-use telephone lines (multi-line business telephone)
- Network lines such as 100BASE-TX and 10BASE-T
- Public telephone subscriber line
- PBX (private branch exchange)
- Lines other than those mentioned above

!
Do not plug a phone cable into your computer network port.

Customizing Your VAIO Computer

This section briefly describes how to change the main settings of your computer.

❑ **Setting the Password (page 90)**
❑ **Setting Up Your Computer with VAIO Control Center (page 92)**
❑ **Using the Power Saving Modes (page 93)**

Setting the Password

Use one of the BIOS functions to set the password.

Once you have set the password, you will have to enter the password after the VAIO logo appears. In this way, you can protect your computer from unauthorized access.

! You cannot start your computer without entering the password. Make sure not to forget the password.

If you forget the password and need assistance to cancel it, a cancellation fee will be charged.

Adding the Password

To add the password

1. Turn on your computer.
2. Press the **F2** key when the **VAIO** logo appears.
   The BIOS setup screen appears.
3. Use the ← or → key to select **Security** on the **Boot** menu to display another screen, select **Change Supervisor Password**, and then press the **Enter** key.
4. On the password entry screen, enter the password **twice** and press the **Enter** key.
   The password should be **up to 6 alphanumeric characters** long.

   ✍ The following is to configure your computer to prompt password entry when you turn on your computer or display the BIOS setup screen.
5. Select **Password Check** under **Security**.
   Press the **Enter** bar to change the setting from **Setup** to **Always**.
6. Press the **Esc** key.
7. Use the ← or → key to select **Exit** and then **Exit (Save Changes)**; and press the **Enter** key.
   On the **Setup Confirmation** screen, confirm that **OK** is selected and then press the **Enter** key.

Changing/Removing the Password

To change or remove the password

1. Turn on your computer.
2. Press the **F2** key when the **VAIO** logo appears.
3. Enter the current password for **Enter Current Password**:
   The BIOS setup screen appears.
4. Use the ← or → key to select **Security** on the **Boot** menu to display another screen, select **Change Supervisor Password**, and then press the **Enter** key.
5. On the password entry screen, enter a **new password twice**; and press the **Enter** key.
   To remove the password, leave **Enter Password** blank and press the **Enter** key.
6. Press the **Esc** key.
7. Use the ← or → key to select **Exit** and then **Exit (Save Changes)**; and press the **Enter** key.
   On the **Setup Confirmation** screen, confirm that **OK** is selected and then press the **Enter** key.

Setting Up Your Computer with VAIO Control Center

The **VAIO Control Center** utility allows you to consult system information and specify preferences for system behavior.

To use VAIO Control Center

1 Click **Start**, point to **All Programs**, and click **VAIO Control Center**.
The **VAIO Control Center** window appears.

Control item	*Description*
System Information	Displays the information about your operating system, the hardware configuration, and software information.
Initial Setting	You can specify the order in which the system checks for devices containing a bootable system when it starts.
Built-in Pointing Device	You can enable or disable the built-in pointing device.
S Button (VGC-V617G/V600MG only)	You can change the functions assigned to the computer's S buttons. Available pre-defined assignments are as follows. **Muting**, **Stand by**, **Hibernate**, **Max Brightness**, **External Display**, **Launch Application**, **VAIO Zone**, **SSMS Audio Filter**, **Multiple Monitors**

2 Select the desired control item and change the settings.

3 Once finished, click **OK**.
The setting of the desired item has been changed.

✍
For more information about each option, click **Help** on the **VAIO Control Center** window to display the help file.

Some of the control items will not be visible if you open **VAIO Control Center** as a limited user.

Using the Power Saving Modes

In addition to the normal operating mode, which allows you to turn off specific devices, your computer has two distinct power saving modes: **Standby** and **Hibernate**.

The color of the power indicator light behind the power button tells you which mode the computer is in.

Power indicator	*Mode*
Green	Computer is in **Normal** mode (on).
Amber	Computer is in **Standby** mode.
No light	Computer is turned off or in **Hibernate** mode.

To set the timer for your computer to automatically enter **Standby** or **Hibernate** mode after a certain amount of time, click **Start** and **Control Panel**. Click **Performance and Maintenance** and **Power Options**, and then change the settings under **Power Schemes**.

Using Normal Mode

This is the normal state of your computer when it is in use. The green power indicator light is on in this mode. To save power while not working, you can turn off a specific device such as the LCD or the hard disk.

Using Standby Mode

Standby mode turns off the LCD screen and sets the hard disk and the CPU to a low power consumption mode. The umber power light flashes in this mode.

To activate Standby mode

1 Click **Start** and then **Turn Off Computer**.

2 Click **Stand By**.

Alternatively, you can press the **Standby** button on the keyboard to put your computer in **Standby** mode.

To return to Normal mode

Press any key.

If you press the power button for more than four seconds, the computer will switch off automatically. You will lose any unsaved data.

When the computer is in **Standby** mode, you cannot insert a disc.

The computer comes out of **Standby** mode quicker than out of **Hibernate** mode.

Standby mode uses more power than **Hibernate** mode.

If the computer is not used for more than 20 minutes, it will enter **Standby** mode. To avoid this, you can change the **Standby** mode settings.

Using Hibernate Mode

In **Hibernate** mode, the state of the system is saved on the hard disk and power is turned off. The power indicator light is off in this mode.

To activate **Hibernate** mode

1 Click **Start** and then **Turn Off Computer**.

2 Hold down the **Shift** key and click **Hibernate**.

To return to Normal mode

Turn on the computer by pressing the power button.

The computer returns to its previous state.

If you press the power button for more than four seconds, the computer will switch off automatically.

If you do not use the computer for a long period of time, put your computer into **Hibernate** mode. This power saving mode saves you the time of shutting down in the normal way.

When the computer is in **Hibernate** mode, you cannot insert a disc.

Hibernate mode requires more time than **Standby** mode to be activated.

It takes more time to return to **Normal** mode from **Hibernate** mode than from **Standby** mode.

Hibernate mode uses less power than **Standby** mode.

Do not move the computer until its power indicator turns off.

Upgrading Your VAIO Computer

Your computer and memory modules use high precision components and electronic connectors technology. To avoid the invalidation of your guarantee due to mishandling, we recommend that:

- You contact your dealer to install a new memory module.
- You do not install it yourself, if you are not familiar with upgrading memory on a computer.
- You do not touch the connectors or open the memory panel.

For the type of module and amount of memory installed on your computer, refer to the online **Specifications** sheet.

For assistance, contact an authorized Sony Service Center. To find the nearest center or agent, visit the Sony online support Web site.

Adding and Removing Memory

If you want to expand the functionality of your computer, you can increase the memory by installing optional memory modules. Before you upgrade your computer's memory, read the notes and procedures in the following pages. The number of available slots depends on the configuration of your computer.

Notes on adding/removing memory modules

- Be careful when changing memory. Improper installation of memory modules may cause damage to your system. This damage may void your manufacturer's warranty.
- Only use memory modules that are compatible with your computer. If a memory module is not detected by your computer or Windows becomes unstable, contact your sales dealer or the manufacturer of your memory module.
- Electrostatic discharge can damage electronic components. Before touching a memory module, ensure the following:
  - The procedures described in this document assume familiarity with the general terminology associated with personal computers and with the safety practices and regulatory compliance required for using and modifying electronic equipment.
  - Turn off the computer and disconnect the system from its power source and from any telecommunication links, networks, or modems before you open the computer. Failure to do so may result in personal injury or equipment damage.
  - Electrostatic Discharge (ESD) can damage memory modules and other components. Install the memory module only at an ESD workstation. If such a station is not available, do not work in a carpeted area, and do not handle materials that produce or hold static electricity (cellophane wrappers, for example). Ground yourself by maintaining contact with an unpainted metal portion of the chassis while performing the procedure.
  - Do not open the memory module package until you are ready to change the module. The package protects the module from ESD.
- Use the special bag delivered with the memory module or wrap the module in aluminum foil to protect it from electrostatic discharge.

- Introducing any liquids or any foreign substances or objects into the memory slots, or other internal components of the computer, will result in damage to the computer and any repair costs will not be covered by the warranty.
- Do not place the memory module in places subject to:
  - Heat sources such as radiators or air ducts
  - Direct sunlight
  - Excessive dust
  - Mechanical vibration or shock
  - Strong magnets or speakers that are not magnetically shielded
  - Ambient temperature of more than 95°F (35°C) or less than 41°F (5°C)
  - High humidity
- Handle the memory module with care. To avoid injuries to your hands and fingers, do not touch the edges of the components and circuit boards inside your computer.

Removing and Installing a Memory Module

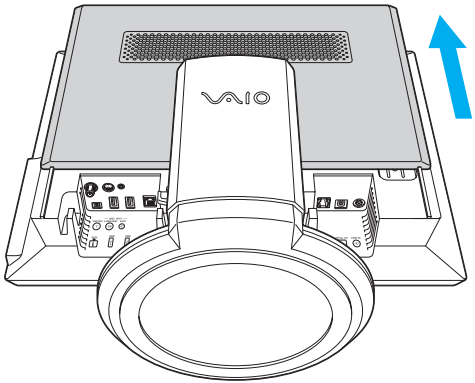
To remove a memory module

1 Shut down and unplug your computer, and then disconnect all peripheral devices.

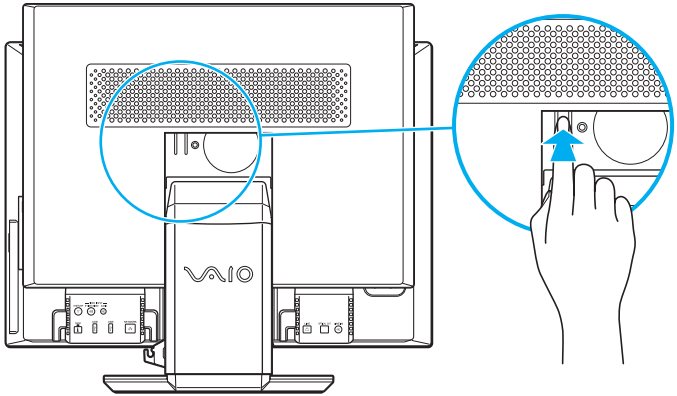
2 Gently place the main unit on a flat and stable surface, with the LCD screen facing down.

! Use caution when placing the LCD screen face-down on a table or other flat surface. The work surface must be free of dirt or debris that may damage the screen.

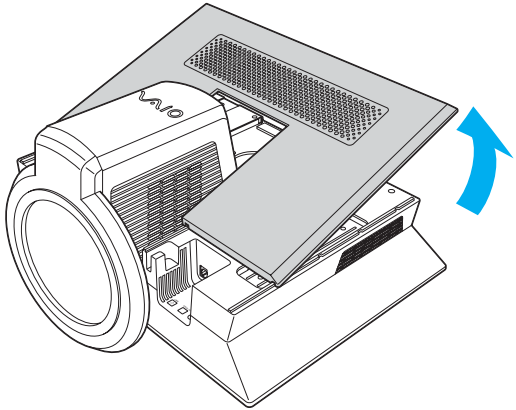
3 Slide the back panel cover up until it stops.



4 Press and hold the back panel cover release tab (indicated by the arrow) and slide the back panel cover further up.

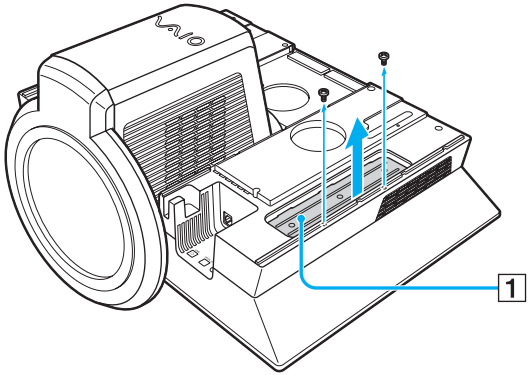


5 Lift the back panel cover away from the unit to remove.



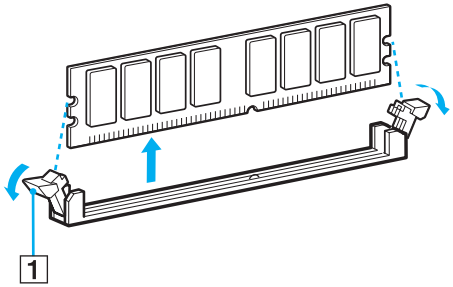
6 Remove the screws on the memory cover (1).

7 Disengage the memory cover tabs from the slots on the computer by lifting the edge of the memory cover, and then remove the memory cover.

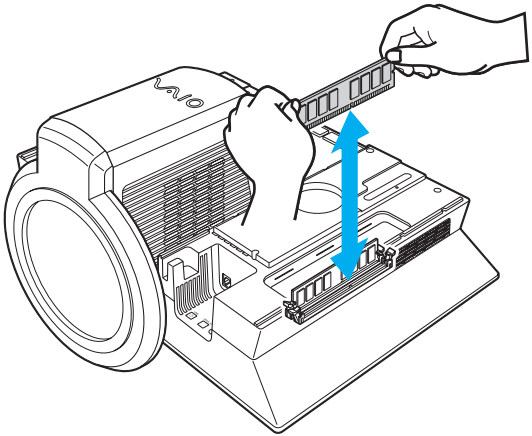


8 Locate the memory module(s) you wish to remove.

9 Push down on the latches (1), located on both sides of the module, to gently eject it from the slot.



10 Grasp the memory module by the sides and remove from the main unit. Store the module in a static-free bag.



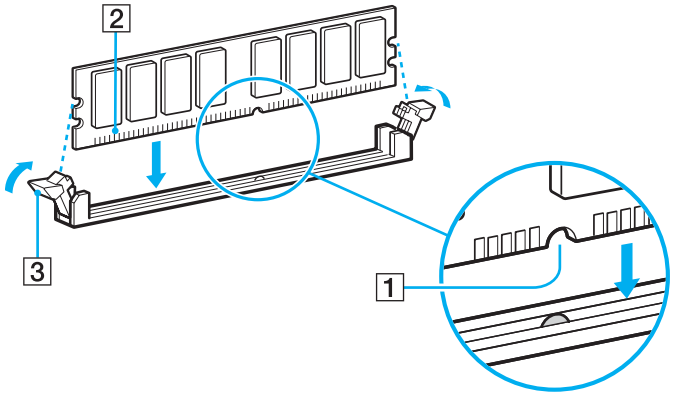
To install a memory module

1 Remove the memory module from its anti-static package, handling it by the edges.

2 Locate the center notch (1) on the bottom edge of the memory module and align it to the center notch in the open module slot.

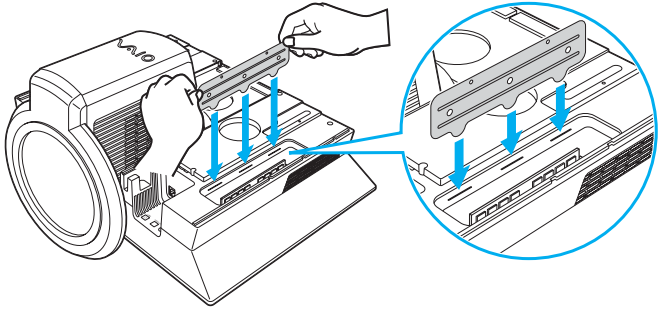
3 Firmly insert the lower edge of the module (2) into the slot by pressing down evenly against the module's upper corners.

4 The side latches (3) snap into position, holding the memory module in place.

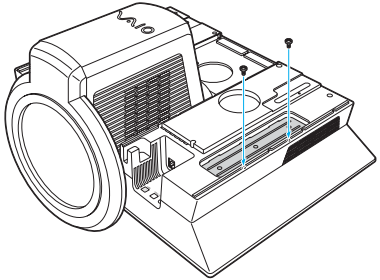


! To avoid damaging a memory module or the memory module slot, move the side latches slightly outward to relieve pressure. The module is properly inserted when the side latches click into place.

5 Align the memory cover tabs to the slots on the computer and gently press down on the cover until it snaps into place.

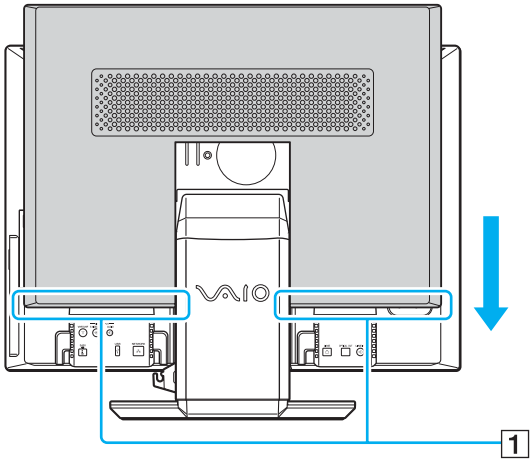


6 Replace the screws in the memory cover.



7 Place the back panel cover against the computer, aligning it to the tracks on each side (1).

8 Gently slide the back cover onto the computer until it gently snaps into place.



Viewing the Amount of Memory

To view the amount of memory

1. Turn on the computer.
2. Click **Start**, point to **All Programs**, and click **VAIO Control Center**.
3. Double-click the **System Information** folder in the **VAIO Control Center** window.
4. Double-click the **System Information** icon in the **System Information** folder.
   You can view the amount of system memory. If the additional memory does not appear, repeat the whole procedure and restart the computer.

Precautions

This section describes safety guidelines and precautions to help you protect your computer from potential damage.

❑ **On Handling the LCD Screen (page 110)**
❑ **On Using the Power Source (page 111)**
❑ **On Handling Your Computer (page 112)**
❑ **On Handling Floppy Disks (page 113)**
❑ **On Handling Discs (page 114)**
❑ **On Using Headphones (page 114)**
❑ **On Handling Memory Stick Media (page 115)**
❑ **On Handling the Hard Disk (page 116)**

On Handling the LCD Screen

- Do not leave the LCD facing the sun. This could damage the LCD. Be careful when using the computer near a window.
- Do not scratch the LCD or exert pressure on it. This could cause a malfunction.
- Using the computer in low temperature conditions may produce a residual image on the screen. This is not a malfunction. When the computer returns to normal temperature, the screen returns to normal.
- A residual image may appear on the screen if the same image is displayed for a lengthy period of time. The residual image disappears in a while. You can use a screen saver to prevent residual images.
- The screen becomes warm during operation. This is normal and does not indicate a malfunction.
- The LCD is manufactured using high-precision technology. You may, however, see tiny black points and/or bright points (red, blue, or green) that continuously appear on the LCD. This is a normal result of the manufacturing process and does not indicate a malfunction.
- Avoid rubbing the LCD screen. This could damage the screen. Use a soft, dry cloth to wipe the LCD screen.

On Using the Power Source

- See the online **Specifications** sheet to check the power operation of your computer.
- Do not share the AC outlet with other power-consuming equipment, such as a photocopier or shredder.
- You can purchase a power strip with a surge protector. This device prevents damage to your computer caused by sudden power surges, in an electrical storm, for example.
- Do not place heavy objects on the power cord.
- To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- Unplug your computer from the AC outlet if you are planning to not use the computer for a long time.
- Make sure that the AC outlet is easily accessible.
- Use the power cord that comes with your computer or genuine Sony products. Do not use any other power cord as it may cause a malfunction.

On Handling Your Computer

- Clean the cabinet with a soft cloth, which is dry or lightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent such as alcohol or benzine, as these may damage the finish of your computer.
- If you drop a solid object or any liquid onto the computer, shut down your computer and then unplug it. You may want to have the computer checked by qualified personnel before operating it again.
- Do not drop the computer or place heavy objects on top of the computer.
- Do not place your computer in a location subject to:
  - Heat sources, such as radiators or air ducts
  - Direct sunlight
  - Excessive dust
  - Moisture or rain
  - Mechanical vibration or shock
  - Strong magnets or speakers that are not magnetically shielded
  - Ambient temperature of more than 95°F (35°C) or less than 41°F (5°C)
  - High humidity
- Do not place electronic equipment near your computer. The electromagnetic field of your computer may cause a malfunction.
- Provide adequate air circulation to prevent internal heat from building up. Do not place your computer on porous surfaces such as rugs or blankets, or near material such as curtains or draperies that may block its ventilation slots.
- The computer uses high-frequency radio signals and may cause interference to radio or TV reception. If this occurs, relocate the computer a suitable distance away from the set.
- Use only specified peripheral equipment and interface cables; otherwise, problems may occur.
- Do not use cut or damaged connection cables.

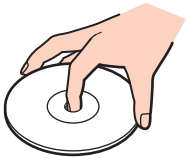
- If the computer is brought directly from a cold location to a warm one, moisture may condense inside your computer. In this case, allow at least one hour before turning on your computer. If any problems occur, unplug your computer and contact an authorized Sony Service Center. To find the nearest center or agent, visit the Sony online support Web site.
- Make sure you disconnect the power cord before cleaning the computer.
- To avoid losing data if your computer is damaged, back up your data regularly.

On Handling Floppy Disks

- Do not open the shutter manually or touch the surface of the floppy disk.
- Keep floppy disks away from magnets.
- Keep floppy disks away from direct sunlight and other sources of heat.
- Keep the floppy disk away from any liquid. Do not let the floppy disk get wet. When you are not using the floppy disk, always remove it from the floppy disk drive and use a storage case.
- If the floppy disk comes with a label, make sure that the label is properly attached. If the edge of the label is curled up, the label may stick to the inside of the floppy disk drive and cause a malfunction or damage your floppy disk.

On Handling Discs

- Do not touch the surface of the disc.
- Do not drop or bend the disc.
- Fingerprints and dust on the surface of a disc may cause read errors. Always hold the disc by its edges and central hole, as shown below:



- Proper care of the disc is essential to its continuous reliability. Do not use solvents (such as benzine, thinner, alcohol, commercially available cleaners, or anti-static spray) which may cause damage to the disc.
- For normal cleaning, hold the disc by its edge and use a soft cloth to wipe the surface from the center out.
- If the disc is badly soiled, moisten a soft cloth with water, wring it out well, and use it to wipe the surface of the disc from the center out. Wipe off any remaining moisture with a dry soft cloth.
- Never put stickers on discs. This will affect the use of the disc irreparably.

On Using Headphones

- **Preventing hearing damage** – Avoid using headphones at high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce the volume or discontinue use.

On Handling Memory Stick Media

- Do not use the media in locations that are subject to static electricity or electrical noise.
- Do not touch the Memory Stick media connector with your finger or metallic objects.
- Use only the label supplied with the Memory Stick media as a label.
- Do not bend, drop, or apply strong shock to the Memory Stick media.
- Do not disassemble or modify Memory Stick media.
- Do not let Memory Stick media get wet.
- Do not use or store Memory Stick media in a location subject to:
  - Extremely high temperatures, such as in a car parked in the sun
  - Direct sunlight
  - High humidity or
  - Corrosive substances
- Use the storage case supplied with the Memory Stick media.

On Handling the Hard Disk

The hard disk has a high storage density and reads or writes data in a short time. However, it can be easily damaged by mechanical vibration, shock or dust.

Although the hard disk has the internal safety device to prevent losing data due to mechanical vibration, shock or dust, you should be careful when handling your computer.

To avoid damaging your hard disk

- Do not subject your computer to sudden movements.
- Keep the computer away from magnets.
- Do not place your computer in a location subject to mechanical vibration or in an unstable position.
- Do not move your computer while the power is on.
- Do not turn off the power or restart the computer while reading or writing data to disk.
- Do not use your computer in a place subject to extreme changes in temperature.

If the hard disk is damaged, the data cannot be restored.

Troubleshooting

This section describes how to solve common problems you might encounter when using your VAIO computer. Many problems have simple solutions. Try these suggestions before visiting the Sony online support Web site at http://www.sony.com/pcsupport for customers in USA and Canada, or at http://kdb.sony-latin.com/ for customers in Latin American countries or areas.

- **Computer** (page 118)
- **System Security** (page 124)
- **Internet** (page 126)
- **Networking** (page 128)
- **CDs and DVDs** (page 130)
- **Display** (page 133)
- **Printing** (page 134)
- **Microphone** (page 135)
- **Mouse** (page 136)
- **Speakers** (page 137)
- **Pointing Device** (page 138)
- **Keyboard** (page 140)
- **Floppy Disks** (page 141)
- **PC Cards** (page 142)
- **Audio/Video** (page 143)
- **Memory Stick Media** (page 144)
- **Peripherals** (page 145)

Computer

What should I do if my computer won't start?

- Make sure the computer is securely plugged into a power source and turned on. Make sure the power indicator shows the power is on.
- Make sure the optical disc drive (if applicable) is empty.
- If the computer is plugged into a power strip or uninterruptible power supply (UPS), make sure the power strip or UPS is turned on and working.
- Confirm that the built-in monitor is plugged into an appropriate power source and turned on.
- Make sure the brightness and contrast controls are adjusted correctly.
- Condensation may cause the computer to malfunction. If this occurs, do not use the computer for at least one hour.
- Remove any extra memory modules you may have inserted since purchase.
- Confirm that the computer is not in **Standby** mode by pressing any key on the keyboard.

What should I do if a BIOS error appears when my computer starts?

If the message "Press F2 to setup" appears at the bottom of the screen

1. Press the **F2** key when the **VAIO** logo appears.
   The BIOS setup screen appears.
2. Press the → key to select the Exit menu.
3. Press the ↓ key to select **Load Setup Defaults**.
4. Press the **Enter** key.
   The **Load Setup Defaults** window appears.
5. Select **OK**, and press the **Enter** key.
6. Select **Exit** (**Save Changes**), and press the **Enter** key.
   The **Save configuration changes and exit now?** window appears.
7. Select **OK**, and press the **Enter** key. The computer restarts.

If this occurs on a regular basis, contact an authorized Sony Service Center. To find the nearest center or agent, visit the Sony online support Web site.

What should I do if the power indicator (Green) lights but my screen does not display anything when I turn on my computer?

If nothing still appears on your screen after a while

1. Press the power button for more than four seconds to check that the power indicator goes out. Then turn on your computer again.
2. If nothing still appears on your screen, unplug the power cord and leave your computer for about a minute. Then plug in the power cord and turn on your computer again.

What should I do if the message "Operating system not found" appears when my computer starts, and why won't Windows start?

- Make sure the computer does not have a "non-bootable" CD or DVD in the optical disc drive (if applicable).
- If a non-bootable media is in the drive:
  1. Remove the media.
  2. Restart the computer and confirm that the Microsoft Windows operating system starts properly.
- If the Windows operating system still does not start, follow these steps to initialize the BIOS:
  1. If there is a CD or DVD in the optical disc drive, remove it.
  2. Turn off the computer.
  3. Remove any peripheral devices connected to the computer.
  4. Restart the computer.
  5. Press the **F2** key when the **VAIO** logo appears.
     The BIOS setup screen appears.
  6. Press the ➡ key to select the **Exit** menu.
  7. Press the ↓ key to select **Load Setup Defaults**.
  8. Press the **Enter** key.
     The **Load Setup Defaults** window appears.
  9. Select **OK**, and press the **Enter** key.
  10. Select **Exit (Save Changes)**, and press the **Enter** key.
      The **Save configuration changes and exit now?** window appears.
  11. Select **OK**, and press the **Enter** key. The computer restarts.

What should I do if my computer or software stops responding?

- It is best to turn off your computer using the **Turn Off Computer** option on the Microsoft Windows Start menu, located on the taskbar. Using other methods, including those listed below, may result in loss of unsaved data.
- Click **Start**, point to **Turn Off Computer**, and then click **Turn Off**.
- If your computer does not turn off, press the **Ctrl**+**Alt**+**Delete** keys simultaneously. When the **Windows Task Manager** window appears, click **Turn Off** from the **Shut Down** menu.
  When the **Windows Security** window appears, click **Shut Down**.
- If your computer still does not turn off, press and hold the power button until the computer turns off.
- If your computer stops responding while playing a CD or DVD, press the **Ctrl**+**Alt**+**Delete** keys simultaneously. You can turn off the computer from the **Windows Task Manager**.
- Pressing the **Ctrl**+**Alt**+**Delete** keys simultaneously or turning off the computer with the power button or switch may cause loss of data.
- Remove the power cord.
- Try reinstalling the software.
- Contact the software publisher or designated provider for technical support.

Why won't my computer enter Standby or Hibernate mode?

Your computer may become unstable if the operating mode is changed before the computer completely enters **Standby** or **Hibernate**.

To restore the computer to normal operating stability

1. Close all open programs.
2. Restart the computer. Follow these steps:
   1. Press the **Windows** key.
   2. Press the **U** key.
   3. Press the **R** key to select restart.
3. If the computer does not restart, follow these steps:
   1. Press the **Ctrl**+**Alt**+**Delete** keys simultaneously.
      The **Windows Task Manager** or **Windows Security** window appears.
   2. When the **Windows Task Manager** window appears, press and release the **Alt** key to highlight the menu bar, press the ➡ key to select **Shut Down**, and then follow step 3 and 4.
      When the **Windows Security** window appears, press the **S** key to shut down.
   3. Press the **Enter** key.
   4. Press the **R** key to select restart.
4. If this procedure does not work, press and hold the power button until the computer turns off.

Why don't my changes appear on the computer screen (LCD)?

You may need to refresh the computer screen. Press and hold the **Windows** key, and press **D** twice.

What should I do if I start my computer and the message "System Disabled" appears and Windows does not start?

If you enter a wrong power-on password three times consecutively, the **System Disabled** message appears and Windows does not start. Press the power button for more than four seconds to check that the power indicator goes off. Wait for 10 or 15 seconds, then restart your computer and enter the correct password. When entering the password, check that the **Num Lock** indicator and **Caps Lock** indicator are off. If any are lit, press the **Num Lk** key or the **Caps Lock** key to turn off the indicator before entering the password.

What should I do if my game software does not work or it keeps crashing?

- Check the web site of the game if there are any patches or updates to download.
- Make sure you have installed the latest video driver.
- On some VAIO models, the graphics memory is shared with the system. The optimal graphic performance in this case is not guaranteed.

What should I do if I cannot remember the password?

If you have forgotten the password, contact an authorized Sony Service Center to cancel it. A cancellation fee will be charged. To find the nearest center or agent, visit the Sony online support Web site.

Why does it take time before my computer starts?

If Norton Internet Security's Personal Firewall is active, it may take some time before the Desktop screen appears due to network security checkups.

System Security

This section provides information about keeping your computer operating smoothly and protecting against potential threats to your computer's security.

How can I protect my computer against security threats, such as viruses?

The Microsoft Windows operating system is preinstalled on your computer. The best way to protect your computer against security threats, such as viruses, is to download and install the latest Windows updates regularly.

You can get important Windows updates by doing one of the following:

- The Automatic Updates feature — This feature automatically searches for and delivers updates directly to your computer whenever you are connected to the Internet.
- The Windows Updates web site — This site enables you to download computer updates without turning on the **Automatic Updates** feature.

Your computer must be connected to the Internet before you can receive updates.

To use the Automatic Updates feature

1. Connect to the Internet.
2. Click the **Automatic Updates** icon on the **Taskbar notification** area.
   The **Automatic Updates Setup Wizard** appears.
3. Click **Next**, and follow the on-screen instructions to set up automatic or scheduled updates.

To visit the Windows Updates web site

1 Connect to the Internet.

2 Type **http://windowsupdate.microsoft.com/** in the address bar of your browser.
The **Microsoft Windows Update and Security Warning** windows appear.

3 In the **Security Warning** window, click **Yes** to install and run **Windows Update**.

4 In the **Microsoft Windows Update** window, select **Express Install** or **Custom Install**, and follow the on-screen instructions.

How do I keep my preinstalled antivirus software updated?

You can keep the preinstalled Norton Internet Security software program current with the latest updates from Symantec Corporation.

To download and install the latest security update

1 Double-click the **Norton Internet Security** icon on the **Taskbar notification** area. If you have not previously registered the antivirus software, a series of information wizards appear.

  1 Follow the on-screen instructions to complete each wizard.

  2 Double-click the **Norton Internet Security** icon again.
  The **Norton Internet Security** window appears.
  If you have previously registered this antivirus software, the Norton Internet Security window automatically appears.

2 Click **Live Update**, located near the top of the window.

3 Follow the on-screen instructions to select and download updates.

Internet

Why doesn't my modem work?

- Make sure the telephone cable is securely plugged into the Modem port on the computer and the wall jack.
- Make sure the telephone cable is working. Plug the cable into an ordinary telephone and listen for a dial tone.
- Make sure the telephone number the program is dialing is correct.
- Make sure the software you are using is compatible with the computer's modem. (All preinstalled Sony programs are compatible.)
- Make sure that the modem is the only device connected to your phone line.
- Check the following setting:
  1. Click **Start** and then **Control Panel**.
  2. Click **Printers and Other Hardware**.
  3. Click **Phone and Modem Options**.
  4. On the **Modems** tab, check that your modem is listed.
  5. On the **Dialing Rules** tab, check the location information is correct

Why is my modem connection slow?

Your computer is equipped with a V.92/ V.90 compatible modem. Many factors may influence modem connection speed, including telephone line noise or compatibility with telephone equipment, such as fax machines or other modems. If you think your modem is not connecting properly to other PC-based modems, fax machines, or your Internet Service Provider (ISP), follow these steps:

- Ask your telephone company to verify your telephone line is free of any line noise.
- If your problem is fax-related, make sure there are no problems with the fax machine you are calling and that it is compatible with fax modems.
- If you are having a problem connecting with your ISP, make sure the ISP is not experiencing technical problems.
- If you have a second telephone line, try connecting the modem to that line.

Networking

Why can't my computer connect to a wireless LAN access point?

- Connection availability is affected by distance and obstructions. You may need to move your computer away from obstructions or closer to any access point you may be using.
- Make sure the **WIRELESS LAN** switch is on and the Wireless indicator is lit on the computer.
- Make sure power to the access point is on.
- Check the following setting:
  1. Click **Start** and then **Control Panel**.
  2. Click **Network and Internet Connections**.
  3. Click **Network Connections**.
  4. Right-click **Wireless Network Connection**.
  5. Click **Properties**.
  6. Click the **Wireless Network** tab.
  7. Make sure the access point is displayed in the **Available networks**.
- Make sure the encryption key is correct.

Why can't I access the Internet?

- Check the access point settings. See the instructions supplied with the access point.
- Make sure your computer and the access point are connected to one another.
- Move your computer away from obstructions or closer to any access point you may be using.
- Make sure your computer is properly configured for Internet access.

Why is the data transfer speed slow?

- The wireless LAN data transfer speed is affected by distance and obstructions between devices and access points. Other factors include device configurations, radio conditions, and software compatibility. To maximize the data transfer speed, move your computer away from obstructions or closer to any access point you may be using.
- If you are using a wireless LAN access point, the device may be temporarily overloaded depending on how many other devices are communicating via the access point.
- If your access point interferes with other access points, change the access point channel. See your access point instructions for more information.

How do I avoid data transfer interruptions?

- When your computer is connected to an access point, data transfer interruptions may occur when using large files or if the computer is in close proximity to microwaves and cordless telephones.
- Move the computer closer to the access point.
- Make sure the access point connection is intact.
- Change the access point channel. See your access point manual for more information.

What are channels?

- Wireless LAN communication occurs on divided frequency bands known as channels. Third-party wireless LAN access point channels may be preset to different channels from Sony devices.
- If you are using a wireless LAN access point, see connectivity information contained in your access point instructions.

When I change the encryption key, the network connection stops. What should I do?

Two computers with built-in wireless LAN may loose a peer-to-peer network connection if the encryption key is changed. You can either change the encryption key back to the original profile or re-enter the key on both computers so the key matches.

CDs and DVDs

Why does my computer freeze when I try to read a disc?

The disc your computer is trying to read may be dirty or damaged. Follow these steps:

1. Restart the computer by clicking **Start**, **Turn Off Computer**, and **Restart**.
2. Eject the disc from the optical disc drive.
3. Examine the disc for dirt or damage. If the disc is dirty, see **On Handling Discs** **(page 114)** for instructions on how to clean it.

What should I do if the drive tray won't open?

- Make sure the computer is on.
- Press the drive eject button on the optical disc drive.
- If the drive eject button does not work, click **Start** and then **My Computer**. Right click the optical disc drive icon, and select **Eject** from the shortcut menu.
- If none of the above options work, insert a thin, straight object (such as a paper clip) in the manual eject hole near the drive eject button.
- Try restarting your computer.

What should I do if the optical disc drive isn't playing my CD or DVD properly?

- Make sure the disc was inserted into the optical disc drive with the label facing up.
- Make sure the necessary program(s) is installed according to the manufacturer's instructions.
- If the CD or DVD is dirty or damaged, the computer will stop responding. Follow these steps:
  1. Restart the computer by pressing the **Ctrl+Alt+Delete** keys, and selecting **Restart** from the **Shut Down** menu of the **Windows Task Manager** window.
  2. Remove the CD or DVD from the optical disc drive.
  3. Check the disc for dirt or damage. If you need to clean the disc, see **On Handling Discs** **(page 114)** for instructions.
- If you are playing a CD or DVD and cannot hear sound, follow these steps:
  - Double-click the **Volume icon** on the **Taskbar Notification** area, and click to cancel the **Volume Control Mute All** and **Wave Mute** check boxes.
  - Check the volume setting in the audio mixer.
  - If you are using external speakers, check the volume settings on the speakers and the connections between the speakers and the computer.
  - Make sure the CD audio feature is enabled and the correct driver software is installed. Follow these steps:
  1. Click **Start and then Control Panel**.
  2. Click **Performance and Maintenance**.
  3. Click **System**.
     The **System Properties** window appears.
  4. Select the **Hardware** tab, and click **Device Manager** in the **Device Manager** box.
     A window with a listing of the computer's hardware devices appears.
     If an "X" or an exclamation point appears on the listed device, you may need to enable the device or reinstall the drivers.
  5. Double-click the optical disc drive device to open the submenu.

6 Double-click the listed drive, and select the **Properties** tab.

7 Click to select the **Enable digital CD audio for this CD-ROM device** check box, if it is not selected. You can confirm the driver software by selecting the **Driver** tab, and clicking **Driver Details**.

8 Click **OK** to close the window.

- ❑ Make sure an adhesive label was not attached to the CD or DVD. Adhesive labels can come off while the disc is in the optical disc drive and damage the drive or cause it to malfunction.
- ❑ If a region code warning appears, the disc may be incompatible with the optical disc drive. Check the DVD package to make sure the region code is compatible with the optical disc drive.
- ❑ If you notice condensation on the computer, do not use the computer for at least one hour. Condensation can cause the computer to malfunction.
- ❑ Make sure your computer is running on AC power supply and try the disc again.

What should I do if I cannot write to CD?

- ❑ Do not launch any software application or allow any to launch automatically, not even a screen saver.
- ❑ Do not use the keyboard.
- ❑ Do not use a CD-R/RW disc that has a label affixed to it. This could cause a write error or other damage.

What should I do if I cannot write to DVD?

- ❑ Are you using the correct DVD recordable media?
- ❑ Check which DVD recordable format is compatible with your computer's built-in DVD recorder (DVD-R / DVD-RW / DVD+R / DVD+RW). Note the possibility that some brands of DVD recordable media do not work.
- ❑ The preinstalled software on your computer does not support copying DVD movies. Macrovision or a similar video protection technology prevents users from copying DVD movies. Copying a DVD movie would be a copyright infringement and therefore illegal.

Display

Why did the computer screen (LCD) go blank?

- Your computer screen may go blank if the computer has lost power or has entered a power saving mode (**Standby** or **Hibernate**). If the computer is in **Standby** mode, press any key to activate the computer screen. See **Using the Power Saving Modes** **(page 93)** for more information.
- Make sure the computer is plugged into a power source and is on. The power indicator on the computer will be on if the computer is on.

What should I do if the screen is dark?

- Press the **Fn+F6** keys to brighten the screen (VGC-V620G).
- Press the **Brightness** button (VGC-V617G/V600MG).

What should I do if the brightness of the screen changes?

The brightness of your screen when adjusted with the **Brightness** button (VGC-V617G/V600MG only) and the **Fn+F5/F6** keys (VGC-V620G only) is temporary.

Printing

Why can't I print a document?

- Make sure the printer is on, and the printer cable is securely connected to the ports on your printer and computer.
- Make sure the printer is compatible with the Windows operating system installed on your computer.
- You may need to install the printer driver software before you use the printer. See the manual that accompanied the printer for more information.
- If the printer is not functioning after the computer resumes from a power saving mode (**Standby** or **Hibernate**), then restart the computer.
- If the bidirectional communication functions are provided with your printer, disabling the functions on your computer may enable printing. Follow these steps:

  1 Click **Start** and then **Control Panel**.

  2 Click **Printers and Other Hardware**.

  3 Click **Printers and Faxes**.

  4 Right-click an unused printer and select **Properties**.

  5 Click the **Ports** tab.

  6 Click to cancel the **Enable bidirectional support** check box.

  7 Click **OK**.

  This change to the settings disables the bidirectional communication functions of your printer, such as data transfer, status monitoring, and remote panel.

Microphone

Why doesn't my microphone work?

If you are using an external microphone, make sure the microphone is turned on and is properly plugged into the Microphone jack on the computer.

Mouse

What should I do if the computer doesn't recognize the mouse?

- Confirm that the supplied AA batteries are properly installed.
- Press the **CONNECT** button on the mouse and the computer to re-establish the connection between the two devices.

What should I do if the pointer doesn't move when I use the mouse?

- Make sure another mouse is not installed.
- If you are playing a disc, press the **Ctrl+Alt+Delete** keys simultaneously to stop playback and restart the computer.
- If you still cannot use the pointer, restart the computer. You can restart the computer three different ways:
  - Press the **Windows** key, and press the **U** key. When the **Turn off computer** window appears, press the **R** key.
  - Press the **Ctrl+Alt+Delete** keys simultaneously. When the **Windows Task Manager** window appears, press the **Alt** key to highlight the menu bar, and press the ➡ key to select **Shut Down**. Press the **Enter** key, and then press the **R** key.
  - Press and hold the power button. When the computer turns off, wait 10 to 15 seconds then press the power button again to restart the computer.
- If you are using a wireless optical mouse:
  - Confirm that the supplied AA batteries are properly installed.
  - Press the **CONNECT** button on the mouse and the computer to re-establish the connection between the two devices.
  - Verify the infrared receiver on the computer's front panel is free of obstructions that may prevent proper operation.
- Avoid using radio-controlled toys or equipment, CB radios, and other wireless devices in the area near your wireless mouse. These devices may cause interference, causing your mouse to stop working properly.
- Do not place metal furniture near your computer or wireless mouse, as this may create interference, causing your mouse to stop working properly.

Speakers

Why won't my speakers work?

- Make sure the speakers are properly connected and the volume is turned up loud enough to hear sound.
- Your speakers may not be designed for computer use.
- If the speakers have a mute button, set the button to off.
- If the speakers have a volume control, make sure the volume is turned up loud enough to hear sound.
- If you have connected an audio cable to the Headphones jack, disconnect the cable and use the speaker cable that was supplied with the speakers.
- If the speakers require external power, make sure the speakers are connected to a power source. See the manual that accompanied the speakers for more information.

Why can't I hear sound from my speakers?

- If you are using a program that has its own volume control, make sure the volume control is properly set. See that program's help guide for more information.
- Your speakers may be set to mute, the volume setting may be too low, or the audio option may be disabled.
- Check the volume controls in Windows.

Pointing Device

What should I do if the pointing device does not work?

- Try restarting your computer. Follow these steps:
  1. Press the **Windows** key.
  2. Press the **U** key. The **Turn off computer** window opens.
  3. Press the **R** key to restart the computer.
- If the computer does not restart, follow these steps:
  1. Press the **Ctrl+Alt+Delete** keys simultaneously. The **Windows Task Manager** window appears.
  2. Press and release the **Alt** key to highlight the menu bar, and press the ➡ key to select **Shut Down.**
  3. Press the **Enter** key.
  4. Press the **R** key to restart the computer

  If you still cannot restart your computer, press and hold the power button to turn off the computer.
- If the pointer does not move while playing a disc, press the **Ctrl+Alt+Delete** keys simultaneously to stop playback and restart the computer.
- If you are still experiencing problems, make sure another mouse is not installed.
- You may have disabled the pointing device without connecting a mouse to the computer. See **Using the Pointing Device (on Selected Models Only)** **(page 31)**.

How do I change the left and right button assignments?

If your computer is interpreting a single-click as a double-click, you may want to change the button assignments. Follow these steps:

1. Click **Start** and then **Control Panel**.
2. Click **Printers and Other Hardware**.
3. Click **Mouse**.
4. On the **Buttons** tab, select your preferences in the **Button Configuration** box, and then click **Apply** to install your settings. You may need to use the **Tab** key and the ↑ and ↓ keys to make your selections.
5. Click **OK** to close the window.

Keyboard

What should I do if the keyboard configuration is wrong?

- The language layout of your computer's keyboard is specified on the sticker on the box. If you choose a different regional keyboard when you complete the Windows setup, the key configuration will be mismatched.
- To change the keyboard configuration, follow these steps:
  1. Click **Start** and then **Control Panel**
  2. Click **Date, Time, Language and Regional Options.**
  3. Change the settings as desired.

Floppy Disks

Why doesn't the Safely Remove Hardware icon appear on the taskbar when the drive is connected?

The computer does not recognize the floppy disk drive. First, make sure the USB cable is properly connected to the USB port. If you need to secure the connection, wait a few moments for the computer to recognize the drive. If the icon still does not appear, follow these steps:

1. Close all programs that were accessing the floppy disk drive.
2. Wait for the LED indicator on the floppy disk drive to turn off.
3. Push the eject button to remove the disk, and disconnect the USB floppy disk drive from the computer.
4. Reconnect the floppy disk drive by inserting the USB connector (with the USB icon facing upward) into the USB port.
5. Restart the computer by clicking **Start**, **Turn Off Computer**, and then **Restart**.

Why is the drive unable to write data to a floppy disk?

- Make sure the floppy disk is properly inserted in the drive.
- If the disk is inserted properly and you are still unable to write data to it, the disk may be full or write-protected. You can either use a floppy disk that is not write-protected or disable the write-protect feature.

PC Cards

Why doesn't my PC Card work?

- Make sure the PC Card is inserted properly. See **Inserting a PC Card** **(page 56)** for more information.
- Make sure the PC Card is compatible with the Microsoft Windows operating system installed on your computer.
- See the instructions that accompanied your PC Card. You may need to install driver software if you are not using a Sony PC Card.

Why doesn't my computer recognize attached devices?

For some PC Cards, if you alternate between normal power operation and the **Standby** or **Hibernate** modes while the card is inserted into the PC Card slot, the computer may not recognize the PC Card or the connected device. Restart your computer.

Why can't I insert my PC Card?

- Make sure you are inserting the card correctly. See **Inserting a PC Card** **(page 56)** for more information.
- You may not be able to use some PC Cards or some functions of the PC Card with this computer. Check the manual that accompanied your PC Card for more information on its use.

Audio/Video

Why can't I use the DV camera recorder?

You may not be able to use the DV camera recorder, and the message DV equipment seems to be disconnected or turned off may appear because the i.LINK cable is not securely plugged into the ports on the computer or camera. Unplug the connectors, and plug them in again. See **Connecting an i.LINK Device** **(page 85)** for more information.

i.LINK is a trademark of Sony used only to designate that a product contains an IEEE1394 connection. The i.LINK connection may vary, depending on the software applications, operating system, and compatible i.LINK devices. All products with an i.LINK connection may not communicate with each other. See the manual that came with your compatible i.LINK device for information on operating conditions and proper connection. Before connecting compatible i.LINK PC peripherals to your system, such as CD-RW or hard disk drive, confirm their operating system compatibility and required operating conditions.

Memory Stick Media

Why can't I open my image files?

You may need to reformat your Memory Stick media.

Formatting Memory Stick media erases all data, including music data, previously saved to it. Before you reformat Memory Stick media, back up important data and confirm that the media does not contain files you want to keep.

1 Copy the data from the Memory Stick media onto your computer's hard disk to save data or images.

2 Format the Memory Stick media using the **Memory Stick Formatter** software preinstalled on your computer. For instructions about formatting a Memory Stick media, see **Formatting a Memory Stick Media** **(page 65)**.

Why can't I save music files onto my Memory Stick media?

- ❑ Copyright protected music cannot be checked out to any Memory Stick media other than MagicGate Memory Stick media.
- ❑ Using recorded music requires permission of the copyright holders.
- ❑ Sony is not responsible for music files that cannot be recorded from a CD or downloaded from other sources.

Can I copy images from a digital video camera using Memory Stick media?

Yes, and you can view video clips that you have recorded with Memory Stick media-compatible video camera recorders.

Peripherals

What should I do if I cannot connect a USB device?

- If applicable, check the USB device is switched on and using its own power supply. For example, if you are using a digital camera, check the battery is charged. If you are using a printer, check the power cable is connected properly to the AC outlet.
- Try using a different USB port on your computer. The driver could be installed to the specific port you used the first time you connected the device.
- Check the manual provided with the USB device. You may need to install software before you connect the device.
- Try connecting a simple, low-powered device such as a mouse to test that the port is working at all.
- USB hubs may prevent a device from working because of the distribution of power. We recommend you connect the device directly to your computer without a hub.

Support Options

The section contains information on where to go for answers to questions about your VAIO computer and the preinstalled software.

Sony Support Information

See the following sources for answers in the sequence listed below.

1 VAIO Computer Documentation

This on-screen **User Guide** (this manual) and the printed **Welcome mat** provide detailed information on how to maximize your computer's capabilities and solve common problems.

2 Program Guides and Help Files

The preinstalled programs on your computer may come with individual help guides. These guides are stored on the hard disk as on-screen Help files. You can find the Help files from the Help menu under the specific program.

3 Operating System Online Support

Your computer comes preinstalled with a Microsoft Windows operating system. For operating system support, you can visit Microsoft customer support at: http://support.microsoft.com/directory/.

4 Sony Computing Support

This service provides instant access to information on commonly encountered problems. Type a description of the problem and the Knowledge Database searches for the corresponding solutions online. You can visit the Sony online support Web site at http://www.sony.com/pcsupport for customers in USA and Canada, or http://kdb.sony-latin.com/ for customers in Latin American countries or areas.

5 VAIO Update

When your computer is connected to the Internet, **VAIO Update** automatically notifies you when critical software and security information is posted on the support web site. Click the **VAIO Update** notice to open the VAIO Support web site and view the information. You can also right-click the **VAIO Update** icon on the **Taskbar Notification** area and select **Go to VAIO Web Support** to open the support web site.

For users in Latin American countries or areas

Customer Information Center

If you do not find the information you are looking for at our site, you may call Sony directly. In order to receive the fastest and most efficient services, please have the following information readily available:

1 Your VAIO® computer model

You can find it at the lower right corner of the display on the laptops, and in the same place on the front panel of the CPU on the desktops.

2 Your computer's serial number

You can find it on the back of the laptops and on the back of the CPU on the desktops; the serial number is the last 7 digits of the number below the barcode.

3 The operating system on your computer

4 The hardware component or the software program that is causing you the problem

5 A brief description of the problem

In order to contact a Sony technical support representative, please call the following numbers:

❑ In Argentina:

(011) 6770-SONY (7669)

❑ In Mexico:

In Mexico City: 2122-9819

In the Mexican Republic: 01-800-715-4331

❑ In Colombia:

01-800-550-7000

❑ In Peru:

0-801-1-7000 or 221-6699

❑ In Chile:

Sony answers: 800-261-800

From cellular phones: 02-754-6333

❑ In Venezuela:

0-800-1-SONY-00 (0-800-1-7669-00)

Program Support Information

Depending on the computer model and particular configuration you purchased, your computer may not include all of the software programs listed below.

Adobe® Photoshop® Elements, Photoshop® Album, Premiere®, Reader®

Adobe Systems Inc.

- For users in USA and Canada
  Web Site http://www.adobe.com/support
  Telephone 800-685-3652

America Online® (Broadband or Dial-Up)

AOL, Inc.

- For users in USA and Canada
  Web Site http://www.aol.com

AOL® Instant Messenger™

AOL, Inc.

- For users in USA and Canada
  Web Site http://www.aim.com

Click to DVD™

Sony Electronics Inc.

At the touch of a button, Click to DVD software allows you to automatically burn DVDs from a digital video (DV) device. Create DVDs by capturing video content straight from a DV device or by importing video from stored files — and you can also edit the video. Create DVD photo albums and slide shows with picture files or by importing pictures from a digital still camera. What's more, you can give a professional look to your DVDs by adding chapter menus, backgrounds, and menu screens. You are only a few clicks away from your own DVDs!

- For users in USA and Canada
  Web Site http://www.sony.com/pcsupport
  Telephone 888-4-SONY-PC (888-476-6972)
- For users in Latin American countries or areas
  Web Site http://kdb.sony-latin.com/

DVgate Plus™

Sony Electronics Inc.

Connect a compatible digital video camera to your computer's i.LINK® port and capture video clips and still images. Edit clips from your video, add new clips, and combine clips into new movie segments. Save your movies back to your digital video camera or in a variety of popular file formats.

- For users in USA and Canada
  Web Site http://www.sony.com/pcsupport
  Telephone 888-4-SONY-PC (888-476-6972)
- For users in Latin American countries or areas
  Web Site http://kdb.sony-latin.com/

Google Toolbar™

Google, Inc.

- For users in USA and Canada
  Web Site http://toolbar.google.com/help.html

Microsoft® Office Basic Edition, Office Professional Edition, Office Small Business Edition, Office Small Business Edition Trial Version, Office Student and Teacher Edition Trial Version

Microsoft Corp.

- For users in USA and Canada
  Web Site http://support.microsoft.com

Microsoft® Internet Explorer, Movie Maker, Media Player, Works

Microsoft Corp.

- For users in USA and Canada
  Web Site http://support.microsoft.com

MoodLogic

MoodLogic, Inc.

- For users in USA and Canada
  Web Site http://www.moodlogic.com/support
  E-mail help@moodlogic.com

Netscape® Internet Service

AOL Inc.

- For users in USA and Canada
  Web Site http://isp.netscape.com/help
  Telephone 866-541-8233

Norton Internet Security™

Symantec Corporation

- For users in USA and Canada
  Web Site http://www.symantec.com/techsupp

PictureGear Studio™

Sony Electronics Inc.

PictureGear Studio still image management software displays still images from your hard drive or a Sony digital still camera. The still images appear in a convenient light-table format so that you can easily view the contents of an entire folder, create your own photo albums, and make prints.

- For users in USA and Canada
  Web Site http://www.sony.com/pcsupport
  Telephone 888-4-SONY-PC (888-476-6972)
- For users in Latin American countries or areas
  Web Site http://kdb.sony-latin.com/

Quattro Pro®

Corel Corporation

❑ For users in USA and Canada
Web Site http://www.corel.com

Quicken® New User Edition

Intuit Inc.

❑ For users in USA and Canada
Web Site http://www.intuit.com/support/quicken/

RecordNow!

Sonic Solutions

❑ For users in USA and Canada
Web Site http://support.sonic.com/

SonicStage®

Sony Electronics Inc.

The SonicStage jukebox software program gives you all the tools you need to manage music on your computer. SonicStage software sports high-quality digital audio storage, a sleek player skin design, and audio CD burning capability.

- For users in USA and Canada
  Web Site http://www.sony.com/pcsupport
  Telephone 888-4-SONY-PC (888-476-6972)
- For users in Latin American countries or areas
  Web Site http://kdb.sony-latin.com/

SonicStage® Mastering Studio

Sony Electronics Inc.

Use SonicStage® Mastering Studio software to record songs from analog records or cassette tapes into your computer and output them to CD-R or CD-RW discs or audio files in WAV format.

- For users in USA and Canada
  Web Site http://www.sony.com/pcsupport
  Telephone 888-4-SONY-PC (888-476-6972)
- For users in Latin American countries or areas
  Web Site http://kdb.sony-latin.com/

SpySubtract®

InterMute, Inc.

- For users in USA and Canada
  Web Site http://www.intermute.com/support.html

VAIO Action Setup

Sony Electronics Inc.

VAIO Action Setup manages the settings for your computer's shortcut keys.

- For users in USA and Canada
  Web Site http://www.sony.com/pcsupport
  Telephone 888-4-SONY-PC (888-476-6972)
- For users in Latin American countries or areas
  Web Site http://kdb.sony-latin.com/

VAIO Control Center

Sony Electronics Inc.

VAIO Control Center provides a central location that gathers resources to configure your VAIO® personal computer and view your computer's configuration and specifications.

- For users in USA and Canada
  Web Site http://www.sony.com/pcsupport
  Telephone 888-4-SONY-PC (888-476-6972)
- For users in Latin American countries or areas
  Web Site http://kdb.sony-latin.com/

VAIO Edit Components

Sony Electronics Inc.

VAIO Edit Components is a software plug-in for Adobe® Premiere® software that provides maximum compatibility and video quality for capturing video from your Sony digital camcorder.

- For users in USA and Canada
  Web Site http://www.sony.com/pcsupport
  Telephone 888-4-SONY-PC (888-476-6972)
- For users in Latin American countries or areas
  Web Site http://kdb.sony-latin.com/

VAIO Media™

Sony Electronics Inc.

VAIO Media™ software brings multimedia to your network, enabling you to share music, video, and still image files between your VAIO® computers. You can set up one or more VAIO computers as "media servers," which store your multimedia files and make them available to other compatible VAIO computers on your wired or wireless network.

- For users in USA and Canada
  Web Site http://www.sony.com/pcsupport
  Telephone 888-4-SONY-PC (888-476-6972)
- For users in Latin American countries or areas
  Web Site http://kdb.sony-latin.com/

VAIO Update

Sony Electronics Inc.

The VAIO Update utility helps you keep your VAIO® computer up to date by regularly checking the Sony Online Support Web site for important software updates and information for your specific VAIO computer model.

- For users in USA and Canada
  Web Site http://www.sony.com/pcsupport
  Telephone 888-4-SONY-PC (888-476-6972)
- For users in Latin American countries or areas
  Web Site http://kdb.sony-latin.com/

VAIO Wireless Utility

Sony Electronics Inc.

The VAIO Wireless Utility walks you through setting up your wireless network connection and offers useful diagnostic tests to help keep your wireless network running smoothly.

- For users in USA and Canada
  Web Site http://www.sony.com/pcsupport
  Telephone 888-4-SONY-PC (888-476-6972)
- For users in Latin American countries or areas
  Web Site http://kdb.sony-latin.com/

VAIO Zone

Sony Electronics Inc.

VAIO Zone software provides an effortless way to browse and enjoy pictures, music, and video files on your computer, all through an elegant, next-generation interface. You can even enjoy media content stored on other VAIO® computers on your network. On VAIO computer models with a recordable DVD drive, VAIO Zone enables you to record video and slide shows of pictures to DVD. On VAIO computer models with a built-in TV tuner, VAIO Zone includes a complete personal video recorder, enabling you to record TV programs and burn them to DVD.

- For users in USA and Canada
  Web Site http://www.sony.com/pcsupport
  Telephone 888-4-SONY-PC (888-476-6972)
- For users in Latin American countries or areas
  Web Site http://kdb.sony-latin.com/

WinDVD® for VAIO®

InterVideo, Inc.

- For users in USA and Canada
  Web site http://www.intervideo.com/jsp/Support.jsp
  Telephone 510-651-0888

WordPerfect®

Corel Corporation

- For users in USA and Canada
  Web site http://www.corel.com/